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WASTE TANK SUMMARY REPORT FOR MONTH ENDING SEPTEMBER 30, 2004

BM HANLON

CH2M HILL Hanford Group, Inc. Richland, WA 99352

U.S. Department of Energy Contract DE-AC27-99RL14047

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Waste Tank Summary Report for Month Ending SEPTEMBER 30, 2004

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management

CH2MHILL

Hanford Group, Inc.

Richland, Washington

Contractor for the U.S. Department of Energy Office of River Protection under Contract DE-AC27-99RL14047

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Waste Tank Summary Report for Month Ending SEPTEMBER 30, 2004

B. M. Hanlon CH2M HILL Hanford Group, Inc.

Date Published November 2004

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management

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ACRONYMS

BBI Best Basis Inventory

CH2M HILL CH2M HILL Hanford Group, Inc.
DCRT Double-Contained Receiver Tank
DIL Drainable Interstitial Liquid
DLR Drainable Liquid Remaining

DST Double-Shell Tank

FSAR Final Safety Analysis Report effective October 18, 1999

Gal Gallon

GPM Gallons Per Minute
ILL Interstitial Liquid
Kgal Kilogallons
IS Interim Stabilized

MT/FIC/ Manual Tape, Food Instrument Corporation, ENRAF Corporation (surface level measurement

ENRAF devices)

OSD Operating Specifications Document

PFP Plutonium Finishing Plant

SHMS Standard Hydrogen Monitoring System

SST Single-Shell Tank SWL Salt Well Liquid

TMACS Tank Monitor and Control System

TPA Hanford Federal Facility Consent and Compliance Order, "Washington State Department of

Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy," as amended

(Tri-Party Agreement)

TSR Technical Safety Requirement

TWINS Tank Waste Information Network System

USQ Unreviewed Safety Question

GLOSSARY

General

<u>Characterization</u> - Characterization is understanding the Hanford tank waste chemical, physical, and radiological properties to the extent necessary to ensure safe storage and interim operation, and ultimate disposition of the waste.

<u>Drainable Interstitial Liquid (DIL)</u> -Drainable Interstitial Liquid is calculated based on saltcake and sludge volumes, calculated porosity values. Interstitial liquid is the liquid that fills the interstitial spaces of the solids waste. The sum of the interstitial liquid contained in saltcake and sludge minus an adjustment for capillary height is the initial volume of DIL. Interstitial liquid that is not held in place by capillary forces will, therefore, migrate or move with gravity.

<u>Drainable Liquid Remaining (DLR)</u> - The total Drainable Liquid Remaining is the sum of drainable interstitial liquid and supernatant.

<u>Supernatant Liquid</u> - The liquid above the solids or in large liquid pools covered by floating solids in waste storage tanks.

<u>Total Waste</u> - For purposes of this document, solids volume (sludge and saltcake including liquids) plus supernatant liquid.

Waste Tank Safety Issue - A potentially unsafe condition in the handling of waste material in underground storage tanks that requires corrective action to reduce or eliminate the unsafe condition. There are currently no waste tank safety issues.

Interim Stabilization (Single-Shell Tanks only)

Interim Stabilized (IS) - A tank which contains less than 50 Kgallons of drainable interstitial liquid and less than 5 Kgallons of supernatant. If the tank was jet pumped to achieve interim stabilization, then the jet pump flow or saltwell screen inflow must also have been at or below 0.05 gpm before interim stabilization criteria are met.

<u>Jet Pump</u> - The centrifugal pump and jet assembly are needed to pump the interstitial liquid from the saltwell screen into the pump pit, nominally a 40-foot elevation rise. Pumping rates vary from 0.05 to about 4 gpm.

Saltwell Screen - The saltwell system is a 10-inch diameter saltwell casing consisting of a stainless steel saltwell screen welded to a Schedule 40 carbon steel pipe. The casing and screen are to be inserted into the 12-inch tank riser located in the pump pit. The stainless steel screen portion of the system will extend through the tank waste to near the bottom of the tank.

Retrieval/Closure-(Single-Shell Tanks only)

Closure (C) - Final closure of the operable units (tank farms) shall be defined as regulatory approval of completion of closure actions and commencement of post-closure actions. For the purposes of this agreement (Hanford Federal Facility Agreement and Consent Order Change Control Form, Change Number M-45-02-03), all units located within the boundary of each tank farm will be closed in accordance with Washington Administrative Code 173-303-610.

<u>Retrieval (R)</u> - The process of removing, to the maximum extent practical, all the waste from a given underground storage tank. The retrieval process is selected specific to each tank and accounts for the waste type stored and the access and support systems available. Generally, retrieval is focused on removal of solids from the tank.

Tank Integrity

<u>Assumed Leaker</u> - The integrity classification of a waste storage tank for which surveillance data indicate a loss of liquid attributed to a breach of integrity.

<u>Sound</u> - The integrity classification of a waste storage tank for which surveillance data indicate no loss of liquid attributed to a breach of integrity.

Surveillance Instrumentation

<u>Annulus</u> - The annulus is the space between the inner and outer shells on <u>DSTs</u> only. Drain channels in the insulating and/or supporting concrete carry any leakage to the annulus space where conductivity probes are installed. The annulus conductivity probes and radiation detectors are the primary means of leak detection for all DSTs.

<u>Automatic FIC</u> - An automatic waste surface level measurement device is manufactured by the Food Instrument Corporation (FIC). The instrument consists of a conductivity electrode (plummet) connected to a calibrated steel tape, a steel tape reel housing and a controller that automatically raises and lowers the plummet to obtain a waste surface level reading. All FIC gauges are read manually. FICs are being replaced by ENRAF detectors (see below).

<u>Drywells</u> - Historically, the drywells were monitored with gross logging tools as part of a secondary leak monitoring system. In some cases, neutron-moisture sensors were used to monitor moisture in the soil as a function of well depth, which could be indicative of tank leakage. The routine gross gamma logging data were stored electronically from 1974 through 1994; a program was initiated in 1995 to log each of the available drywells in each tank farm with a spectral gamma logging system. The spectral gamma logging system provides quantitative values for gamma-emitting radionuclides. The baseline spectral gamma logging database is available electronically.

Spectral drywell scans can be run by special request. A select subset of drywells is routinely monitored by the Vadose Zone Characterization Project to assess movement of gamma-emitting radionuclides in the subsurface.

ENRAF 854 ATG Level Detector - FICs and some manual tapes are in the process of being replaced by the ENRAF ATG 854 level detector. The ENRAF gauge, fabricated by ENRAF Incorporated, determines waste level by detecting variations in the weight of a displacer suspended in the tank waste. ENRAFs and future installations will transmit digital level data to TMACS via an ENRAF Computer Interface Unit (CIU). The CIU allows fully remote communication with the gauge, minimizing tank farm entry.

<u>Laterals</u> - Laterals are horizontal drywells positioned 8 to 10 feet under single-shell waste storage tanks, 3 per tank, to detect radionuclides in the soil which could be indicative of tank leakage. These drywells can be monitored by radiation detection probes. Laterals are located only in A and SX farms. There are currently no functioning laterals and no plan to prepare them for use.

Liquid Observation Well (LOW) - In-tank liquid observation wells are used for monitoring the ILL in single-shell tanks. The wells are usually constructed of fiberglass or TEFZEL-reinforced epoxy-polyester resin (TEFZEL is a trademark of E. I. du Pont de Nemours & Company). A few LOWs constructed of steel. Gamma and neutron probes are used to monitor changes in the ILL, and can indicate intrusions or leakage by increases or decreases in the ILL. There are 70 LOWs installed in SSTs that contain or are capable of containing greater than 50 Kgallons of drainable interstitial liquid. All of the LOWs are monitored weekly with the exception of TX-108 which is monitored by request only. Two LOWs installed in DSTs SY-102 and AW-103 are used for special, rather than routine, surveillance purposes only.

<u>Surface Levels</u> - The surface level measurements in all waste storage tanks are monitored by manual or automatic conductivity probes, and recorded and transmitted or entered into the Surveillance Analysis Computer System.

<u>Thermocouple (TC)</u> - A thermocouple is a thermoelectric device used to measure temperature. More than one thermocouple element on a device (probe) is called a thermocouple tree.

METRIC CONVERSION CHART

METRIC CONVERSION CHART					
1 inch	=	2.54 centimeters			
1 foot	=	30.48 centimeters			
1 gallon	-	3.79 liters			
1 ton	=	0.91 metric tons			

$$^{\circ}F = \left(\frac{9}{5} \, ^{\circ}C\right) + 32$$

1 Btu/h = 0.2931 watts (International Table)

1.0 PURPOSE AND SCOPE

This report is the official inventory for radioactive waste stored in underground tanks in the 200 Areas at the Hanford Site. Data that depict the status of stored radioactive waste and tank vessel integrity are contained within the report. This report provides data on each of the existing 177 large underground waste storage tanks and 60 smaller miscellaneous underground storage tanks and special surveillance facilities, and supplemental information regarding tank surveillance anomalies and ongoing investigations. This report is intended to meet the requirement of U.S. Department of Energy Order 435.1 (DOE-HQ, August 28, 2001, Radioactive Waste Management, U.S. Department of Energy-Washington, D.C.) requiring the reporting of waste inventories and space utilization for the Hanford Site Tank Farm tanks.

2.0 WASTE TANK STATUS

Note: Changes from the previous month are in **bold print**.

Double-Shell Tanks (DST)	28 double-shell	10/86 - date last DST tank was completed
Single-Shell Tanks (SST)	149 single-shell	1966 - date last SST tank was completed
Assumed Leaker Tanks	67 single-shell	07/93 - date last Assumed Leaker was identified
Sound Tanks	28 double-shell 82 single-shell	1986 - date DSTs determined sound 07/93 - date last SST determined sound
Interim Stabilized Tanks ^a (IS)	149 single-shell	03/04 - date last IS occurred
Retrieval ^b	13 single-shell	12/03 - date last Retrieval completed
Misc. Underground Storage Tanks (MUST) and Special Surveillance Facilities (Active)	10 Tanks East Area 7 Tanks West Area	03/01 - last date a tank was added or removed from MUST list
Misc. Underground Storage Tanks (IMUST) and Special Surveillance Facilities (Inactive) ^c	18 Tanks East Area 25 Tanks West Area	11/01 - last date a tank was added or removed from IMUST list

Footnotes:

Saltwell pumping for the tanks covered by the Consent Decree was completed in March 2004. (Tank C-106 is not included in the Consent Decree and is not Interim Stabilized; Retrieval was completed December 31, 2003). As of September 30, 2004, Interim Stabilization documentation has not yet been completed on two tanks: BY-106 and S-111.

^a Tanks are declared Interim Stabilized when pumping stops; the tank may be placed in evaluation at this time. Tank U-108 was placed in evaluation on March 18, 2004, due to major equipment failure; documentation was completed August 16 and the declaration letter sent to DOE-RL on September 8, 2004.

Tank status for C-104, C-201, C-202, C-203, C-204, S-102, S-103, S-105 and S-106 was changed to "Retrieval," effective October 2002. Tank status for C-103, C-105, C-106, and S-112 was changed to "Retrieval" in October 2003. Retrieval was completed for tank C-106 on December 31, 2003. Hanford Federal Facility Agreement and Consent Order (signed August 2004) modified Milestone M-45-00C (Change Order M-45-04-01) changing the regulatory requirements for retrieval of waste in tanks S-103, S-105, and S-106. "Retrieval" status in these tanks is thereby rescinded to allow focusing on the retrieval of wastes and the interim closure of all Waste Management Area C-Farm Single-Shell Tanks.

^c Tables 5-2. and 5-3., the Inactive Miscellaneous Underground Storage Tanks (IMUST) now reflect only those tanks managed by CH2M HILL Hanford Group, Inc. (CH2M HILL).

2.1 WASTE TANK STATUS HIGHLIGHTS

Table 2-1. Single-Shell Tanks in Retrieval Status

Tank Number	Comments
241-C-103	
241-C-104	
241-C-105	
241-C-106	Declared "Retrieval Completed," December 31, 2003
241-C-200 series	C-203 – Retrieval in progress – July 2004
241-S-102	
241-S-103	Status rescinded by HFFACO, August 2004
241-S-105	Status rescinded by HFFACO, August 2004
241-S-106	Status rescinded by HFFACO, August 2004
241-S-112	Retrieval in progress

Table 2-2. Single-Shell Tanks Declared Interim Stabilized (2003/04) (in evaluation or Interim Stabilization documented)

241-U-108	March 18, 2004, now documented
241-BY-106	December 31, 2003 (in evaluation)
241-S-101	December 29, 2003, declared IS; now documented
241-U-107	December 16, 2003, declared IS; now documented
241-S-111	December 15, 2003 (in evaluation-major equipment failure)
241-AX-101	December 11, 2003, declared IS; now documented
241-A-101	November 10, 2003; now documented
241-S-107	February 4, 2004, declared IS; now documented
241-SX-102	August 28, 2003, now documented
241-SX-101	August 14, 2003, declared IS; now documented
241-C-103	July 11, 2003, declared IS; now documented
241-U-111	June 25, 2003, declared IS; now documented
241-SX-103	May 31, 2003, declared IS; now documented
241-BY-105	March 7, 2003, declared IS; now documented

On August 23, 2004, Interim Stabilization (the removal of pumpable liquids from Hanford's single-shell tanks) was completed five months ahead of schedule. The overall project had a lifespan of five years. The next phase of tank cleanup is retrieval of the solids and sludges that remain in the tank. Tank 241-106-C has been cleaned out; S-112 is more than 90% clean, and the retrieval of materials from S-102 is scheduled to begin next month.

Hanford Federal Facility Agreement and Consent Order (signed August 2004) modified Milestone M-45-00C (Change Order M-45-04-01) changing the regulatory requirements for retrieval of waste in tanks S-103, S-105, and S-106. "Retrieval" status in these tanks is thereby rescinded to allow focusing on the retrieval of wastes and the interim closure of all Waste Management Area C-Farm Single-Shell Tanks. The contractor is in the process of preparing applicable documentation.

3.0 DOUBLE-SHELL TANKS MONTHLY SUMMARY TABLES

Table 3-1. Inventory and Status by Tanks - Double-Shell Tanks.

	All volume d	lata obtaine	d from Ta	ınk Waste Ir	nformation Ne	twork Syste	em (TWINS)
					Wa	ste Volum	es	
Tank	Tank Integrity	Tank Level (inches)	Total Waste (Kgal)	Available Space (Kgai)	Supernatant Liquid (Kgal)		Saltcake (Kgal)	Solids Volume Update
			241-A	N TANK FAI	RM STATUS			·
AN-101	SOUND	349	959	185	928	0	31	12/31/03
AN-102	SOUND	390	1072	72	938	0	134	12/31/02
AN-103	SOUND	349	959	185	500	0	459	06/30/99
AN-104	SOUND	383	1053	91	608	0	445	06/30/99
AN-105	SOUND	409	1125	19	587	0	538	01/31/03
AN-106	SOUND	323	887	257	841	29	17	03/31/04
AN-107	SOUND	401	1102	42	872	0	230	12/31/03
7 TANKS -	TOTAL		7157	851	5274	29	1854	
			241-A	P TANK FAI	RM STATUS			
AP-101	SOUND	404	1111	33	1111	0	0	05/01/89
AP-102	SOUND	399	1098	46	1075	23	0	05/31/02
AP-103	SOUND	325	894	250	894	0	0	05/31/96
AP-104	SOUND	400	1100	44	1100	0	0	10/13/88
AP-105	SOUND	414	1139	5	1050	0	89	06/30/99
AP-106	SOUND	413	1137	7	1137	0	0	10/13/88
AP-107	SOUND	76	210	934	210	0	0	10/13/88
AP-108	SOUND	297	817	327	817	0	0	10/13/88
8 TANKS	TOTAL		7506	1646	7394	23	89	
				W TANK FA	RM STATUS			
AW-101	SOUND	410	1127	17	731	0	396	01/31/03
AW-102	SOUND	378	1040	85	1033	7	0	03/31/04
AW-103	SOUND	400	1100	44	787	273	40	06/30/99
AW-104	SOUND	391	1074	70	851	66	157	06/30/99
AW-105	SOUND	153	421	723	158	263	0	06/30/99
AW-106	SOUND	328	902	242	619	0	283	04/12/04
6 TANKS	- TOTAL		5664	1181	4179	609	876	<u> </u>
				Y TANK FAF				
AY-101	SOUND	65	179	822	83	96	0	06/30/99
AY-102	SOUND	319	878	123	727	151	0	04/12/04
2 TANKS	TOTAL		1057	945	810	247	0	
1			<u>241-A</u>	Z TANK FAF	M STATUS			
AZ-101	SOUND	335	920	81	868	52	0	06/30/98
AZ-102	SOUND	357	983	18	878	105	0	06/30/99
2 TANKS	TOTAL	<u>-</u>	1903	99	1746	157		
			241-S	<u>Y TANK FAR</u>	M STATUS			
SY-101	SOUND	139	382	762	107	0	275	06/30/99
SY-102	SOUND	248	683	461	538	145	0	09/30/03
SY-103	SOUND	269	741	403	399	0	342	06/30/99
3 TANKS -	TOTAL		1806	1626	1044	145	617	

Notes:

1 Kgal differences are the result of computer rounding
Supernatant + Sludge (includes liquid) + Saltcake (includes liquid) = Total Waste

Available Space Volumes include restricted space

Table 3-2. Double-Shell Tank Space Allocation, Inventory and Waste Receipts (all volumes in kgallons)

		<u></u>	
TOTAL DST CA	APACITY	TOTAL DST WASTE IN	√ENTORY
OTAL=	31,441	INVENTORY ON 8/31/04	25,096
		INVENTORY ON 7/31/04	25,090
		CHANGE =	

ALLOCATION OF REMAINING DS	T SPACE
TOTAL DST CAPACITY =	31,441
WASTE INVENTORY =	-25,096
(*) DEDICATED OPERATIONAL SPACE =	-2,000
(**) RESTRICTED USAGE SPACE =	-1,760
(***)EMERGENCY SPACE ALLOCATION =	1,200
REMAINING AVAILABLE SPACE =	1,385

- (*) Dedicated Operational Space is assumed to equal 2 Mgal for SST retrieval, cross-site transfer receiver, and evaporator feed and slurry.

 (**) Restricted space associated with flammable gas Waste Group A and tanks controlled for waste feed delivery per Feed Control List,

 HNF-SD-WM-OCD-015, Tank Farms Waste Transfer Compatibility report. These tanks are: AN-102, -103, -104, -105, -107; AP-101;

 AW-101, -103, -105; AY-102; and SY-103 (AY-102 is allowed to receive condensate only). Restricted space does not include Feed
- Control List tanks AY-101, AZ-102, and SY-102, which are allowed to receive limited types of waste.

 (***) Emergency Space Allocation adjusted in July 2003 per HNF-3484 Rev. 4, includes space for WTP returns.

					···
		AUGUST DST WAS	STE RECEIPT:	S	
FACILITY GENER	ATIONS	OTHER GAINS ASSOC	IATED WITH	OTHER LOSSES ASSOCI	ATED WITH
SALTWELL LIQUID (WEST)	0	SLURRY	4	SLURRY	0
SALTWELL LIQUID (EAST)	0	CONDENSATE	10	CONDENSATE	8
TANK FARMS	2	INSTRUMENTATION	0	INSTRUMENTATION	0
242-A	0	MISCELLANEOUS GAINS	2	MISCELLANEOUS LOSSES	4
C-203	0				
S-112	0				
TOTAL =	2	TOTAL=	16	TOTAL=	12

WASTE RECEIPT AND EVAPORATOR METRIC								
DATE	DST WASTE RECEIPTS	MISC. DST CHANGES (+/-)	WVR(I)	NET DST CHANGE	TOTAL DST VOLUME			
8/04	2	4	0 .	6	25,096			

(1) WVR is total (before flush) waste volume reduction for 242-A Evaporator

IN	IPLEMENTATION OF D (TPA MILES	ST SPACE OPTION STONE M-46-21)	S METRIC
DATE	INITIATIVES	GAINS TO DATE (1)	GAINS DURING MONTH
8/04	INCREASE DST FILL HEIGHT NET EVAPORATOR WVR	0	0
	RESERVE EMERGENCY SPACE COMPLIANT WITH DOE 0435.1	1704	0
	USE RESTRICTED HEADSPACE TOTAL	0 2804	0

- (1) DST tank space gains since 10/1/02.
- (2) WVR is net (after flush) waste volume reduction for 242-A Evaporator

4.0 SINGLE-SHELL TANKS MONTHLY SUMMARY TABLES

Table 4-1. Inventory and Status by Tanks - Single-Shell Tanks (sheet 1 of 4).

All volume data obtained from	Tank Waste	Information N	etwork Syste	em (TWINS)
1 MI 1 OIGHIO GALA OUMINGA HOM	T PHILID IN MORE	, <u> </u>	I CUTTOLE OF DU	DATE (- 11 +4 1 D)

			the country of the		1 I ank wast		ste Volur		<u> </u>	/	
				Super-	Drainable			Drinable			
			Total	_	Interstitial	this	Total	Liquid	l	Salt-	Solds
Tank	Tank	Tank	·Waste	Liquid	Liquid	Month	Pumped	Remaining	Sludge	cake	Volume
	Integrity	Status	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	Update
				2	41-A TANK F					-	
A-101	SOUND	IS	320	0	37	0	542	37	3	317	06/30/04
A-102	SOUND	IS	40	3	9	0	40	12	0	37	01/31/03
A-103	ASMD LKR	IS	370	4	87	0	111	92	2	364	01/01/02
A-104	ASMD LKR	IS	28	0	0	0	0	0	28	0	01/27/78
A-105	ASMD LKR	IS	37	0	0	0	0	0	37	0	10/31/00
A-106	SOUND	IS	79	0	9	0	. 0	9	50	29	01/01/02
6 TANKS	S - TOTAL		874						120	747	
				24	1-AX TANK	FARM STA	TUS		-		L
AX-101	SOUND	IS	358	0	44	0	369	44	3	355	12/31/03
AX-102	ASMD LKR	IS	30	0	. 0	0	13	0	6	24	01/01/02
AX-103	SOUND	IS	107	0	22	0	0	22	8	99	09/30/03
AX-104	ASMD LKR	18	7	0	0	0	0	0	7	0	01/01/02
4 TANKS	S - TOTAL	· · · · · · · · · · · · · · · · · · ·	502						24	478	
					41-B TANK F	ADM STAT	rtie	· · · · · · · · · · · · · · · · · · ·	<u>-</u> -	.,,,	
 B-101	ASMD LKR	IS	109	<u> </u>	20	0	0	20	28	81	01/01/02
B-102	SOUND	·IS	32	4	7	0	0	11	0	28	06/30/99
B-103	ASMD LKR	IS	56	0	10	0	0	10	1	55	01/01/02
B-104	SOUND	IS	374	0	45	0	0	45	309	65	01/01/02
B-105	ASMD LKR	IS	290	0	20	0	0	20	28	262	01/01/02
B-106	SOUND	IS	123	1	8	0	0	9	122	0	12/31/03
B-107	ASMD LKR	IS	161	0	23	0	0	23	86	75	01/01/02
B-108	SOUND	IS	92	0	19	0	0	19	27	65	06/30/04
B-109	SOUND	IS	125	0	23	0	0	23	50	75	01/01/02
B-110	ASMD LKR	IS	245	1	27	0	0	28	244	0	01/01/02
B-111	ASMD LKR	IS	242	1	23	0	0	24	241	0	01/01/02
B-112	ASMD LKR	IS	35	3	2.	0	0	5	15	17	01/01/02
B-201	ASMD LKR	IS	29	0	5	0	0	5	29	0	07/01/04
B-202	SOUND	IS	28	0	4	0	0	4	. 28	0	07/01/04
B-203	ASMD LKR	IS	50	1	5	0	0	6	49	0	07/01/04
B-204	ASMD LKR	IS	49	1	5	0	0	6	48	0	07/01/04
16 TANK	S - TOTAL		2040						1305	723	01701701
				24	1-BX TANK F	'ARM STA'	TUS		1505		<u> </u>
BX-101	ASMD LKR	IS	48	<u>۔</u> ا	4	0	0	4	48	0	01/01/02
BX-102	ASMD LKR	IS	79	0	0	0	0	0	79	0	06/30/04
BX-103	SOUND	IS	74	12	4	0	0	15	62	0	11/29/83
BX-104	SOUND	IS	100	3	4	0	17	7	97	0	01/01/02
BX-105	SOUND	IS	72	5	4	0	15	9	67	0	01/01/02
BX-106	SOUND	IS	38	0	4	0	14	4	38	0	01/01/02
BX-107	SOUND	IS	347	0	37	0	23	37	347	0	09/18/90
BX-108	ASMD LKR	IS	31	0	4	0	0	4	31	0	03/18/90
BX-109	SOUND	IS	193	0	25	0	8	25	193	0	09/17/90
BX-110	ASMD LKR	IS	205	1	35	0	2	36	65	139	01/01/01
BX-111	ASMD LKR	IS	189	0	6	0	117	6	32	157	01/01/01
BX-112	SOUND	IS	164	1	9	0	4	10	163	0	01/01/02
12 TANK	S - TOTAL		1540				<u></u>		1222	296	-1.01/02

Table 4-1. Inventory and Status by Tank - Single-Shell Tanks (sheet 2 of 4).

	Al	l volum	e data ob	tained from	n Tank Waste I			k System (T			
						Waste	Volume				
	•			Super-	Drainable	Pumped		Drainable			
			Total	natant	Interstitial	this	Total	Liquid	ı	Salt-	Solids
Tank	Tank	Tank	Waste	Liquid	Liquid	Month	Pumped	Remaining	Sludge	cake	Volume
Number	Integrity	Status	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	Update
				24	11-BY TANK FAI	RM STATU	JS				
BY-101	SOUND	IS	370	0	24	0	36	24	37	333	01/01/02
BY-102	SOUND	IS	279	0	40	0	159	40	0	279	06/30/04
BY-103	ASMD LKR	IS	417	0	58	0	96	58	9	408	01/31/03
BY-104	SOUND	IS	358	0	51	0	330	51	45	313	01/01/02
BY-105	ASMD LKR	IS	4 81	0	47	0	45	47	48	433	03/31/03
BY-106	ASMD LKR	IS	462	•	-	0	99	-	32	430	12/31/03
BY-107	ASMD LKR	IS	272	. 0	42	0	56	42	16	256	06/30/04
BY-108	ASMD LKR	IS	222	0	33	0	28	33	40	182	01/01/02
BY-109	SOUND	IS	287	0	37	0	157	37	24	263	06/30/04
BY-110	SOUND	IS	366	0	20	0	213	20	43	323	01/01/02
BY-111	SOUND	IS	301	0	14	0	313	14	0	301	06/30/04
BY-112	SOUND	IS	286	0	24	0	116	24	2	284	03/31/02
12 TANK	S - TOTAL		4101						296	3805	
}				2	41-C TANK FAR	M STATU	S				
C-101	ASMD LKR	IS	88	0	4	0	0	4	88	0	11/29/83
C-102	SOUND	IS	316	0	62	0	47	62	316	0	09/30/95
C-103	SOUND	IS/R	72	. 1	10	0	114	11	71	0	12/31/03
C-104	SOUND	IS/R	259	0	29	0	0	29	259	0	01/01/02
C-105	SOUND	IS/R	132	0	10	0	0	10	132	0	02/29/00
C-106	SOUND	/R	3		mpleted, 12/31/03	0	523	-	3	0	12/31/03
					ote (1), page 17						
C-107	SOUND	IS	247	0	30	0	41	30	247	0	06/30/04
C-108	SOUND	IS	66	0	4	0	0	4	66	0	02/24/84
C-109	SOUND	IS	63	0	4	0	0	4	63	0	06/30/04
C-110	ASMD LKR	IS	178	1	37	0	16	38	177	0	06/14/95
C-111	ASMD LKR	IS	57	0	4	0	0	4	57	0	06/30/04
C-112	SOUND	IS	104	0	6	0	0	6	104	0	09/18/90
C-201	ASMD LKR	IS/R	1	0	0	0	0	0	1	0	01/01/02
C-202	ASMD LKR	IS/R	0		ote (2), page 17	0	0	Ø	0	0	06/30/04
C-203	ASMD LKR	IS/R	1		al in progress	0	19	-	1	0	07/31/04
C-204	ASMD LKR	IS/R	2	0	0	0	0	0	2	0	01/31/03
16 TANK	S - TOTAL		1589	<u> </u>					1587	0	
					41-S TANK FAR		-				
S-101	SOUND	IS	352	0	45	0	68	45	235	117	04/31/04
S-102	SOUND	/R	438	-	-	0	62	-	22	416	06/30/03
S-103	SOUND	IS (3)	237	1	45	0	24	46	9	227	06/30/04
S-104	ASMD LKR	IS	288	0	49	0	0	49	132	156	12/20/84
S-105	SOUND	IS (3)	406	0	42	0	114	42	2	404	01/01/02
S-106	SOUND	IS (3)	455	0	26	0	204	26	0	455	02/28/01
S-107	SOUND	IS	358	0	42	0	82	42	320	38	02/04/04
S-108	SOUND	IS	550	0	4	0	200	4	5	545	01/01/02
S-109	SOUND	IS	533	0	16	0	34	16	13	520	06/30/01
S-110	SOUND	IS	389	0	30	0	203	30	96	293	01/01/02
S-111	SOUND	IS	411		•	0	100	-	76	335	06/30/04
S-112	SOUND	/R	74	Retriev	al in progress	0	1500		6	68	07/01/04
12 TANKS	S - TOTAL		4491						916	3574	

Table 4-1. Inventory and Status by Tank - Single-Shell Tanks (sheet 3 of 4).

SX-109 ASMD LKR IS 241 0 0 0 0 0 0 0 74 0 063004 SX-110 ASMD LKR IS 241 0 0 0 0 0 0 0 0 0 66 175 07701704 SX-111 ASMD LKR IS 15 15 0 11 0 0 11 98 17 07701704 SX-111 ASMD LKR IS 15 15 0 11 0 0 11 98 17 07701704 SX-111 ASMD LKR IS 19 0 0 0 0 0 0 0 19 0 0107070 SX-113 ASMD LKR IS 19 0 0 0 0 0 0 0 19 0 0107070 SX-114 ASMD LKR IS 15 0 0 0 0 0 0 0 0 19 0 0107070 SX-115 ASMD LKR IS 15 0 0 0 0 0 0 0 0 19 0 0107070 SX-115 ASMD LKR IS 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		All volume data obtained from Tank Waste Information Network System (TWINS)										
Name								e Volum				
Name					-		_	1			G 34	6 1.1
Number Integrity Status Kgal Kgal Kgal Kgal Kgal Kgal Kgal Kgal Kgal Update	l									G) 1		
SX-101 SOUND IS 419 0 415 0 33 44 144 275 06/3008												
SX-101 SOUND IS 419 0 43 0 33 444 144 275 6663000 SX-103 SOUND IS 509 0 40 0 134 40 78 431 0936 SX-103 SOUND IS 509 0 440 0 134 40 78 431 0936 SX-103 SOUND IS 509 0 440 0 134 40 78 431 0936 SX-104 ASMDLKR IS 375 0 39 0 153 39 63 312 123100 SX-106 SOUND IS 375 0 39 0 153 39 63 312 123100 SX-106 SOUND IS 396 0 7 0 148 37 0 396 0 103103 SX-107 ASMDLKR IS 94 0 7 0 0 7 9 40 0 70104 SX-108 ASMDLKR IS 94 0 7 0 0 0 0 7 7 4 0 0 0 0 0 0 0 0 0 0	Number	Integrity	Status	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	Update
SX-102 SOUND IS 341 0 36 0 98 36 55 286 (083100 085 098 0 40 0 134 40 78 431 093000 093000 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300 09300												
SX-103 SOUND IS 509 0 40 0 134 40 78 431 093002 SX-105 SOUND IS 375 0 39 0 153 39 63 312 1223103 SX-106 SOUND IS 375 0 39 0 153 39 63 312 1223103 SX-106 SOUND IS 375 0 39 0 153 39 63 312 1223103 SX-106 SOUND IS 375 0 39 0 153 39 63 312 1223103 SX-106 SOUND IS 375 0 39 0 153 39 63 312 1223103 SX-108 SX-108 SAMDLKR IS 74 0 0 0 0 0 0 7 7 9 0 0 771 SX-108 ASMDLKR IS 74 0 0 0 0 0 0 0 74 0 0 070104 SX-108 ASMDLKR IS 74 0 0 0 0 0 0 0 0 66 175 070104 SX-108 ASMDLKR IS 74 0 0 0 0 0 0 0 0 49 7 070104 SX-109 ASMDLKR IS 56 0 0 0 0 0 0 0 1 19 7 070104 SX-111 ASMDLKR IS 75 0 6 0 0 0 0 0 1 19 7 070104 SX-111 ASMDLKR IS 75 0 6 0 0 0 0 0 1 19 7 070104 SX-113 ASMDLKR IS 75 0 6 0 0 0 0 0 1 19 9 17 070104 SX-114 ASMDLKR IS 19 0 0 0 0 0 0 10 10 0 0 101003 SX-115 ASMDLKR IS 155 0 30 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0										,		
SX-104 ASMD LKR IS 446 0 48 0 231 48 136 310 04-3090 SX-105 SOUND IS 375 0 39 0 153 39 63 312 123/305 SX-106 SOUND IS 396 0 37 0 148 37 0 386 0/3/3/3/5 SX-107 ASMD LKR IS 94 0 7 0 0 7 94 0 0/7/0/104 SX-108 ASMD LKR IS 74 0 0 0 0 0 0 0 7 94 0 0/7/0/104 SX-109 ASMD LKR IS 74 0 0 0 0 0 0 0 0 66 175 0/7/0/104 SX-109 ASMD LKR IS 241 0 0 0 0 0 0 0 0 66 175 0/7/0/104 SX-110 ASMD LKR IS 56 0 0 0 0 0 0 0 0 49 7 0/7/0/104 SX-111 ASMD LKR IS 56 0 0 0 0 0 0 0 0 11 98 17 0/7/0/104 SX-112 ASMD LKR IS 115 0 111 0 0 11 98 17 0/7/0/104 SX-113 ASMD LKR IS 75 0 6 6 0 0 6 6 75 0 0/7/0/104 SX-114 ASMD LKR IS 19 0 0 0 0 0 0 0 19 0 0 0/109 0 0/109 0 0 0/109 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
SX-105 SOUND IS 375 0 390 0 153 39 0 63 312 123/10/2 SX-106 SOUND IS 396 0 377 0 148 377 0 396 0/13/39/SX-107 ASMD LKR IS 94 0 7 0 0 0 7 94 0 0 07/01/04 SX-108 ASMD LKR IS 74 0 0 0 0 0 0 0 74 0 0 06/30/4 SX-108 ASMD LKR IS 74 0 0 0 0 0 0 0 0 74 0 0 06/30/4 SX-108 ASMD LKR IS 74 0 0 0 0 0 0 0 0 0 49 7 00/01/05 SX-110 ASMD LKR IS 56 0 0 0 0 0 0 0 0 49 7 00/01/05 SX-111 ASMD LKR IS 56 0 0 0 0 0 0 0 1 19 87 00/01/05 SX-111 ASMD LKR IS 115 0 111 0 0 111 98 7 00/01/05 SX-111 ASMD LKR IS 115 0 111 0 0 0 111 98 7 00/01/05 SX-114 ASMD LKR IS 19 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0	1			1	ï					1		
SX-106 SOUND IS 396 0 37 0 148 37 0 396 10/31/02 ASMIDLKR IS 94 0 7 0 0 0 7 7 4 0 07/01/04 SX-108 ASMIDLKR IS 74 0 0 0 0 0 0 0 7 7 4 0 06/30/04 SX-109 ASMIDLKR IS 74 0 0 0 0 0 0 0 0 7 7 7 0 0 06/30/04 SX-109 ASMIDLKR IS 241 0 0 0 0 0 0 0 0 49 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					_							
SX-107 ASMD LKR IS 94 0 7 0 0 7 7 94 0 070/070/050/050/050/050/050/050/050/050/				-	_							
SX-108 ASMD LKR IS 74 0 0 0 0 0 0 0 0 74 0 063000 SX-107 ASMD LKR IS 241 0 0 0 0 0 0 0 6 6 175 0707000 SX-111 ASMD LKR IS 156 0 0 0 0 0 0 0 10 49 7 0707000 SX-111 ASMD LKR IS 115 0 11 0 0 11 98 17 07071000 SX-111 ASMD LKR IS 115 0 11 0 0 11 98 17 07071000 SX-113 ASMD LKR IS 19 0 0 0 0 0 0 0 19 0 010000 SX-114 ASMD LKR IS 19 0 0 0 0 0 0 0 19 0 010000 SX-115 ASMD LKR IS 155 0 30 0 0 30 126 09 0707000 SX-114 ASMD LKR IS 155 0 30 0 0 0 30 126 09 0707000 SX-115 ASMD LKR IS 155 0 30 0 0 0 30 126 09 0707000 SX-115 ASMD LKR IS 155 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												07/01/04
SX-110	SX-108				0	0	0		0	74	0	06/30/04
SX-111 ASMD LKR IS	SX-109	ASMD LKR	IS	241	0	0	0	0	0	66	175	07/01/04
SX-112 ASMD LKR IS 75 0 6 6 0 0 6 75 0 0 7701000 SX-113 ASMD LKR IS 19 0 0 0 0 0 0 0 126 129 0 1070102 SX-114 ASMD LKR IS 155 0 30 0 0 0 30 126 29 07701000 SX-115 ASMD LKR IS 15 4 0 0 0 0 0 0 0 0 4 0 0 1070102 15 TANKS - TOTAL 3319	SX-110	ASMDLKR	IS	56	0	0	0	0	0	49	7	07/01/04
SX-113 ASMD LKR IS 19 0 0 0 0 0 0 19 0 0 10 10 10 10 10 10 10 10 10 10 10 10	SX-111		IS		0					1	17	07/01/04
SX-114 ASMD LKR IS										l		
SX-115 ASMD LKR IS 4 0 0 0 0 0 0 0 0 0	li .									1		
15 TANKS - TOTAL 3319 241-T TANK FARM STATUS 16 37 62 06/30/04 17-102 SOUND IS 32 13 3 0 0 16 19 0 08/31/84 17-103 ASMD LKR IS 27 4 3 0 0 0 7 23 0 11/29/85 17-103 ASMD LKR IS 27 4 3 0 0 0 7 23 0 11/29/85 17-104 SOUND IS 317 0 311 0 150 31 317 0 11/29/85 17-105 SOUND IS 317 0 31 0 150 31 317 0 11/29/85 17-105 SOUND IS 98 0 5 0 0 5 98 0 05/29/85 17-105 SOUND IS 98 0 5 0 0 0 0 0 0 0 0												
T-101 ASMD LKR IS 99 0 16 0 25 16 37 62 06/30/04 T-102 SOUND IS 32 13 3 0 0 0 16 19 0 08/31/84 T-103 ASMD LKR IS 27 4 3 0 0 0 7 23 0 11/29/83 T-104 SOUND IS 317 0 31 0 150 31 317 0 11/30/98 T-105 SOUND IS 98 0 5 0 0 5 98 0 65/29/87 T-106 ASMD LKR IS 22 0 0 0 0 0 0 0 22 0 01/01/01 T-107 ASMD LKR IS 173 0 34 0 111 34 173 0 05/31/87 T-108 ASMD LKR IS 173 0 34 0 11 34 173 0 05/31/87 T-109 ASMD LKR IS 16 0 4 0 0 4 5 11 01/01/01 T-109 ASMD LKR IS 16 0 4 0 0 4 5 11 01/01/01 T-109 ASMD LKR IS 62 0 111 0 0 11 0 62 01/01/01 T-110 ASMD LKR IS 62 0 111 0 0 11 0 62 01/01/01 T-111 ASMD LKR IS 447 0 38 0 10 38 447 0 01/01/01 T-111 ASMD LKR IS 447 0 38 0 10 38 447 0 01/01/01 T-112 SOUND IS 30 2 4 0 0 0 11 6 0 0 04/28/87 T-201 SOUND IS 30 2 4 0 0 0 6 6 28 0 07/01/04 T-202 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-203 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-204 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-204 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-205 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-206 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-207 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-208 SOUND IS 31 0 3 0 0 0 7 7 4 17 01/01/07 T-209 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-201 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-203 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-204 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-205 SOUND IS 36 0 5 0 0 5 36 0 07/01/04 T-206 SOUND IS 31 36 0 5 0 0 5 36 0 07/01/04 T-207 SOUND IS 31 36 0 5 0 0 5 36 0 0 07/01/04 T-208 SOUND IS 145 0 18 0 68 18 0 143 33 06/30/04 T-2-101 SOUND IS 445 0 18 0 68 18 0 143 33 06/30/04 T-2-101 SOUND IS 445 0 18 0 68 18 0 143 33 06/30/04 T-2-101 SOUND IS 57 0 0 7 0 0 7 7 4 17 0 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 7 7 0 29 01/01/07 T-2-101 SOUND IS 445 0 18 0 68 18 0 143 33 06/30/04 T-2-101 SOUND IS 591 0 7 0 0 7 7 0 29 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 7 7 0 29 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 7 7 0 29 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 7 7 0 29 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 0 7 7 4 17 0 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 0 7 7 4 17 0 01/01/07 T-2-101 SOUND IS 591 0 7 0 0 0 7 7 4 17 0 01/01/07			15			U		V				01/01/02
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TX-113 ASMD LKR IS 638 0 18 0 19 18 93 545 06/30/04 TX-114 ASMD LKR IS 532 0 17 0 104 17 4 528 01/01/02 TX-115 ASMD LKR IS 553 0 25 0 99 25 8 545 06/30/04 TX-116 ASMD LKR IS 599 0 21 0 24 21 66 533 04/30/03 TX-117 ASMD LKR IS 480 0 10 0 54 10 29 451 06/30/04 TX-118 SOUND IS 247 0 31 0 89 31 0 247 06/30/04										1		
TX-114 ASMD LKR IS 532 0 17 0 104 17 4 528 01/01/02 TX-115 ASMD LKR IS 553 0 25 0 99 25 8 545 06/30/04 TX-116 ASMD LKR IS 599 0 21 0 24 21 66 533 04/30/03 TX-117 ASMD LKR IS 480 0 10 0 54 10 29 451 06/30/04 TX-118 SOUND IS 247 0 31 0 89 31 0 247 06/30/04										1		
TX-115 ASMD LKR IS 553 0 25 0 99 25 8 545 06/30/04 TX-116 ASMD LKR IS 599 0 21 0 24 21 66 533 04/30/03 TX-117 ASMD LKR IS 480 0 10 0 54 10 29 451 06/30/04 TX-118 SOUND IS 247 0 31 0 89 31 0 247 06/30/04										I		
TX-116 ASMD LKR IS 599 0 21 0 24 21 66 533 04/30/03 TX-117 ASMD LKR IS 480 0 10 0 54 10 29 451 06/30/04 TX-118 SOUND IS 247 0 31 0 89 31 0 247 06/30/04										1		
TX-117 ASMD LKR IS 480 0 10 0 54 10 29 451 06/30/04 TX-118 SOUND IS 247 0 31 0 89 31 0 247 06/30/04					Ť					t		04/30/03
3. 0.00000			IS	480	0					1	1	06/30/04
18 TANKS - TOTAL 6479 772 5705	TX-118		IS	247	0	31	. 0	89	31	0	247	06/30/04
	18 TANK	S - TOTAL		6479						772	5705	

Table 4-1. Inventory and Status by Tank - Single-Shell Tanks (sheet 4 of 4).

				ained from	m Tank Wast			vork System			
				_			te Volum		·		
				Super-	Drainable	Pumped		Drainable	<u> </u>		
	•		Total	natant	Interstitial	this	Total	Liquid		Salt-	Solids
Tank	Tank	Tank	Waste	Liquid	Liquid	Month	Pumped	Remaining	Sludge	cake	Volume
Number	Integrity	Status	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	(Kgal)	Update
				24	1-TY TANK F.	ARM STAT	<u>rus</u>				
TY-101	ASMD LKR	IS	119	0	2	0	8	2	72	47	01/31/03
TY-102	SOUND	IS	69	0	13	0	7	13	0	69	01/01/02
TY-103	ASMD LKR	IS	154	0	23	0	12	23	103	51	06/30/04
TY-104	ASMD LKR	IS	44	1	4	0	0	5	43	0	03/31/02
TY-105	ASMD LKR	IS	231	0	12	0	4	12	231	0	04/28/82
TY-106	ASMD LKR	IS	16	0	1_	0	0	1	16	0	01/01/02
6 TANKS	- TOTALS		633						465	167	
				2	41-U TANK FA	RM STAT	us				
U-101	ASMD LKR	IS	23	0	4	0	0	4	23	0	06/30/04
U-102	SOUND	IS	327	1	37	0	87	38	43	283	12/31/02
U-103	SOUND	IS	417	1	33	0	99	34	12	404	06/30/04
U-104	ASMD LKR	IS	122	0	0	0	0	0	122	0	01/01/02
U-105	SOUND	IS	353	0	44	0	88	44	32	321	03/30/01
U-106	SOUND	IS	170	2	36	0	39	39	0	168	06/30/04
U-107	SOUND	18	294	0	32	0	119	0	15	`279	12/31/03
U-108	SOUND	IS	434	0	46	0	113	46	29	405	09/30/04
U-109	SOUND	IS	401	0	47	0	78	47	35	366	04/30/02
U-110	ASMD LKR	ZI	176	0	16	0	0	16	176	O	01/01/02
U-111	SOUND	IS	222	0	31	0	85	31	26	196	08/31/03
U-112	ASMD LKR	IS	45	0	4	0	0	4	45	0	02/10/84
U-201	SOUND	IS	4	1	1	0	0	2	3	0	06/30/03
U-202	SOUND	IS	4	1	0	0	0	1	3	0	06/30/03
U-203	SOUND	IS	3	1	0	0	0	1	2	0	06/30/03
U-204	SOUND	IS	3	1	0	0	0	1	2	0	06/30/03
16 TANK	S - TOTALS		2998						568	2422	

Note: +/- 1 Kgal difference in volumes is due to rounding.

Footnote:

- (1) C-106: Volumes: Total waste 2771 gallons, liquids 85 gallons, per RPP-19866, Rev. 1, "Calculation for the Post-Retrieval Waste Volume Determination for Tank 241-C-106," dated February 26, 2004.
- (2) C-202: Volumes: Total waste 490 gallons, and sludge 490 gallons
- (3) Hanford Federal Facility Agreement and Consent Order (signed August 2004) modified Milestone M-45-00C (Change Order M-45-04-01) changing the regulatory requirements for retrieval of waste in tanks S-103, S-105, and S-106. "Retrieval" status in these tanks is thereby rescinded.

Table 4-2. Single-Shell Tanks Interim Stabilization Status (Sheet 1 of 2).

	1 adic 4-2.	Single-Sher	i ranks mier	IIII Stavii	Ization Status	(Sneet 1 of 2	
		Interim	Interim			Interim	Interim
Tank	Tank	Stabilization	Stabilization	Tank	Tank	Stabilization	Stabilization
Number	Integrity	Date (1)	Method	Number	Integrity	Date (1)	Method
A-101	SOUND	11/03	JET (16)	BY-107	ASMD LKR	07/79	JET
A-102	SOUND	08/89	SN	BY-108	ASMD LKR	02/85	JET
A-103	ASMD LKR	06/88	AR	BY-109	SOUND	07/97	JET
A-104	ASMD LKR	09/78	AR (3)	BY-110	SOUND	01/85	JET
A-105	ASMD LKR	07/79	AR	BY-111	SOUND	01/85	JET
A-106	SOUND	08/82	AR	BY-112	SOUND	06/84	JET
AX-101	SOUND	06/03	JET (9)	C-101	ASMD LKR	11/83	AR
AX-102	ASMD LKR	09/88	SN	C-102	SOUND	09/95	JET (2)
AX-103	SOUND	08/87	AR	C-103	SOUND	07/03	JET (11)
AX-104	ASMD LKR	08/81	AR	C-104	SOUND	09/89	SN
B-101	ASMD LKR	03/81	SN	C-105	SOUND	10/95	AR
B-102	SOUND	08/85	SN	C-106	SOUND	Retrieval Com	
B-102	ASMD LKR	02/85	SN	C-100	SOUND	09/95	JET
B-103	SOUND	06/85	SN	C-107	SOUND	03/84	AR
B-104	ASMD LKR	12/84	AR	C-108	SOUND	11/83	AR
B-105	SOUND	03/85	SN	C-109 C-110		05/95	JET
	ASMD LKR	03/85			ASMD LKR		
B-107			SN	C-111	ASMD LKR	03/84	SN
B-108	SOUND	05/85	SN	C-112	SOUND	09/90	AR
B-109	SOUND	04/85	SN	C-201	ASMD LKR	03/82	AR
B-110	ASMD LKR	12/84	AR	C-202	ASMD LKR	08/81	AR
B-111	ASMD LKR	06/85	SN	C-203	ASMD LKR	03/82	AR
B-112	ASMD LKR	05/85	SN	C-204	ASMD LKR	09/82	AR
B-201	ASMD LKR	08/81	AR (3)	S-101	SOUND	12/03	JET (18)
B-202	SOUND	05/85	AR (2)	S-102	SOUND		al process
B-203	ASMD LKR	06/84	AR	S-103	SOUND	04/00	JET
B-204	ASMD LKR	06/84	AR	S-104	ASMD LKR	12/84	AR
BX-101	ASMD LKR	09/78	AR (3)	S-105	SOUND	09/88	JET
BX-102	ASMD LKR	11/78	AR	S-106	SOUND	02/01	JET
BX-103	SOUND	11/83	AR (2) (3)	S-107	SOUND	08/03	JET (13)
BX-104	SOUND	09/89	SN	S-108	SOUND	12/96	JET
BX-105	SOUND	03/81	SN	S-109	SOUND	06/01	JET
BX-106	SOUND	07/95	SN	<u>S</u> -110	SOUND	01/97	JET
BX-107	SOUND	09/90	JET	S-111	SOUND	12/03	Jet (17)
BX-108	ASMD LKR	07/79	SN	S-112	SOUND	Retrieval i	n progress
BX-109	SOUND	08/90	JET	SX-101	SOUND	08/03	JET (12)
BX-110	ASMD LKR	08/85	SN	SX-102	SOUND	08/03	JET (14)
BX-111	ASMD LKR	03/95	JET	SX-103	SOUND	05/03	JET (8)
BX-112	SOUND	09/90	JET	SX-104	ASMD LKR	04/00	JET
BY-101	SOUND	05/84	JET	SX-105	SOUND	08/02	JET (6)
BY-102	SOUND	04/95	JET	SX-106	SOUND	05/00	JET
BY-103	ASMD LKR	11/97	JET (2)	SX-107	ASMD LKR	10/79	AR
BY-104	SOUND	01/85	JET	SX-108	ASMD LKR	08/79	AR
BY-105	ASMD LKR	03/03	JET	SX-109	ASMD LKR	05/81	AR
BY-106	ASMD LKR	12/03	JET (19)	SX-110	ASMD LKR	08/79	AR

Table 4-2. Single-Shell Tanks Interim Stabilization Status (Sheet 2 of 2).

	1 aute 4-2.	Single-Shell	Tanks Intern	n Stabili	zanon Status	(Sheet 2 of 2].
		Interim	Interim			Interim	Interim
Tank	Tank	Stabilization	Stabilization	Tank	Tank	Stabilization	Stabilization
Number	Integrity	Date (1)	Method	Number	Integrity	Date (1)	Method
SX-111	ASMD LKR	07/79	SN	TX-111	SOUND	04/83	JET
SX-112	ASMD LKR	07/79	AR	TX-112	SOUND	04/83	JET
SX-113	ASMD LKR	11/78	AR	TX-113	ASMD LKR	04/83	JET
SX-114	ASMD LKR	07/79	AR	TX-114	ASMD LKR	04/83	JET
SX-115	ASMD LKR	09/78	AR (3)	TX-115	ASMD LKR	09/83	JET
T-101	ASMD LKR	04/93	SN	TX-116	ASMD LKR	04/83	JET
T-102	SOUND	03/81	AR (2)(3)	TX-117	ASMD LKR	03/83	JET
T-103	ASMD LKR	11/83	AR	TX-118	SOUND	04/83	JET
T-104	SOUND	11/99	JET	TY-101	ASMD LKR	04/83	JET
T-105	SOUND	06/87	AR	TY-102	SOUND	09/79	AR
T-106	ASMD LKR	08/81	AR	TY-103	ASMD LKR	02/83	JET
T-107	ASMD LKR	05/96	AR	TY-104	ASND KJR	11/83	AR
T-108	ASMD LKR	11/78	AR	TY-105	ASMD LKR	02/83	JET
T-109	ASMD LKR	12/84	AR	TY-106	ASMD LKR	11/78	AR
T-110	SOUND	01/00	JET	U-101	ASMD LKR	09/79	AR
T-111	ASMD LKR	02/95	JET	U-102	SOUND	06/02	JET (5)
T-112	SOUND	03/81	AR (2)(3)	U-103	SOUND	09/00	JET
T-201	SOUND	04/81	AR (3)	U-104	ASMD LKR	10/78	AR
T-202	SOUND	08/81	AR	U-105	SOUND	03/01	JET
T-203	SOUND	04/81	AR	U-106	SOUND	03/01	JET
T-204	SOUND	08/81	AR	U-107	SOUND	10/03	JET (15)
TX-101	SOUND	02/84	AR	U-108	SOUND	03/04	(20)
TX-102	SOUND	04/83	JET	U-109	SOUND	04/02	JET (4)
TX-103	SOUND	08/83	JET	U-110	ASMD LKR	12/84	AR
TX-104	SOUND	09/79	SN	U-111	SOUND	06/03	JET (10)
TX-105	ASMD LKR	04/83	JET	U-112	ASMD LKR	09/79	AR
TX-106	SOUND	06/83	JET	U-201	SOUND	08/79	AR
TX-107	ASMD LKR	10/79	AR	U-202	SOUND	08/79	SN
TX-108	SOUND	03/83	JET	U-203	SOUND	08/79	AR
TX-109	SOUND	04/83	JET	U-204	SOUND	08/79	SN
TX-110	ASMD LKR	04/83	JET			· · · · · · · · · · · · · · · · · · ·	

LEGEND:			
AR	Administratively Interim Stabilized	Interim Stabilized Tanks	149
JET	Saltwell Jet Pumped to Remove Drainable Interstitial Liquid	Total Single-Shell Tanks	149
SN	Supernatant Pumped (Non-Jet Pumped)		
ASMD LKR	Assumed Leaker		
N/A	Not yet Interim Stabilized		

Table 4-2. - Footnotes: (in chronological order)

- (1) These dates indicate when the tanks were actually interim stabilized. In some cases, the official interim stabilization documents were issued at a later date.
- Although tanks 241-BX-103, T-102, and T-112 met the interim stabilization administrative procedure at the time they were stabilized, they no longer meet the updated administrative procedure. The tanks were re-evaluated in 1996 and a letter was issued to DOE-RL recommending that no further pumping be performed on these tanks, based on an economic evaluation. In February 2000, it was determined that five tanks no longer met the stabilization criteria (241-

Table 4-2. - Footnotes continued

BX-103, T-102, and T-112 exceed the supernatant criteria, and BY-103 and C-102 exceed the Drainable Interstitial Liquid [DIL] criteria).

An intrusion investigation was completed on tank 241-B-202 in 1996 and it was determined that this tank no longer meets the recently updated administrative procedure for 200 series tanks.

- Original interim stabilization data are missing on four tanks: 241-B-201, T-102, T-112, and T-201. In February 2001, three additional tanks were added to those missing stabilization data: 241-A-104, BX-101, and SX-115.
- Tank 241-U-109 was declared Interim Stabilized on April 5, 2002. The declaration letter to DOE was issued on June 20, 2002. The surface is primarily a brown colored waste with irregular patches of white salt crystal. Approximately 70% of the waste surface is covered by the salt formations. The waste surface appears dry and shows signs of cracking due to saltwell pumping. There is no visible liquid within the tank.
- Tank 241-U-102 was declared Interim Stabilized on June 19, 2002. The declaration letter to DOE was issued June 28, 2002. The surface is primarily a gray-brown colored cracked waste with irregular patches of white salt crystal. Approximately 50% of the waste surface is covered by the salt formations. The waste surface appears dry and shows signs of cracking due to saltwell pumping. There is approximately a 5-foot wide pool of visible liquid within the saltwell screen depression.
- (6) Tank 241-SX-105 was declared Interim Stabilized on August 1, 2002; the declaration letter to DOE was issued August 20, 2002. The surface is a rough, yellowish-gray saltcake waste with an irregular surface of visible cracks and shelves due to saltwell pumping. The waste surface appears to be dry and shows no standing water within the tank.
- (7) Tank 241-BY-105 was declared Interim Stabilized on March 7, 2003; the declaration letter to DOE was issued March 25, 2003. An in-tank video was taken January 5, 2003. The surface is a rough, yellowish brown saltcake waste with an irregular surface of visible lumps and shelves that were created as the surface was dried out by saltwell pumping. The waste surface appears to be dry and shows no standing water within the tank. A large hole around the saltwell screen shows no evidence of supernatant liquid.
- (8) Tank 241-SX-103 was declared Interim Stabilized on May 31, 2003; the declaration letter to DOE was issued June 13, 2003. An in-tank video was taken December 31, 2001. The upper waste surface is uneven and rough, with many cracks and shelves due to surface drying caused by saltwell pumping. All estimations regarding waste dimensions were obtained by comparison with known dimensions of installed in-tank equipment.
- (9) Tank 241-AX-101 was declared Interim Stabilized on June 2, 2003. The declaration letter to DOE was issued January 19, 2004. An in-tank video was taken November 5, 2003. The surface is a dry flaky, crystalline, yellowish-white saltcake waste in a fairly uniform surface of large cracks that were created as the surface dried out by saltwell pumping. The surface is dry and shows no standing water in the tank.
- Tank 241-U-111 was declared Interim Stabilized on June 25, 2003, due to major equipment failure; the declaration letter to DOE was issued July 14, 2003. An in-tank video was taken March 25, 2003. The surface is a dry, crusty, flat surface saltcake waste with a fairly uniform surface of large cracks and pocked holes that were created as the surface was dried out by saltwell pumping. The waste surface is dry and shows no standing water.
- Tank 241-C-103 was declared Interim Stabilized on July 11, 2003, due to major equipment failure; the declaration letter to DOE was issued August 13, 2003. An in-tank video was taken March 3, 2003. The surface is a dry-cracked brown sludge type waste, which appears to be relatively level and to have more cracking near the tank walls. There is a roughly 3-foot diameter supernatant pool around the saltwell screen. There are also small supernatant pools around two risers and many liquid pockets across the center waste surface. The ENRAF is out of service and there is no liquid observation well (LOW) installed in the tank.
- Tank 241-SX-101 was declared Interim Stabilized on August 14, 2003; the declaration letter to DOE was issued August 22, 2003. An in-tank video was taken August 6, 2003. The surface is a rough, yellowish gray saltcake waste with an irregular surface of visible cracks and shelves that were created as the waste was dried out by saltwell pumping. The waste surface appears to be dry and shows no standing water. A cylindrical pool (approximately 5 foot diameter) around the saltwell screen shows evidence of apparent supernatant liquid, but upon closer examination, was determined to be interstitial liquid.

Table 4-2. - Footnotes continued

- Tank 241-S-107 was declared Interim Stabilized on August 28, 2003, due to major equipment failure. Interim Stabilization documentation was issued February 4, 2004; the declaration letter to DOE was issued February 26, 2004. An in-tank video was taken December 12, 2003. The waste appears as a flat, dark, sludge-type waste with an irregular surface of visible cracks created as the waste dried out from saltwell pumping. The waste surface appears to be dry except for a small pool surrounding the saltwell screen.
- Tank 241-SX-102 was declared Interim Stabilized on August 28, 2003, due to major equipment failure. The declaration letter to DOE was issued August 4, 2004. An in-tank video was taken December 10, 2003. The waste is a rough, yellowish-tray saltcake with an irregular surface of visible cracks and shelves that were created as the waste was dried out by saltwell pumping. The waste surface appears to be dry and shows no standing water on the surface.
- (15) Tank 241-U-107 was declared Interim Stabilized on October 7, 2003. The declaration letter to DOE was issued January 19, 2004. An in-tank video was taken February 4, 2003. The surface is a smooth, brownish saltcake with irregular patches of white salt crystals created as the waste was dried out from saltwell pumping. The waste surface appears to be dry and shows no standing water on the surface.
- Tank 241-A-101 was declared Interim Stabilized on November 10, 2003. The declaration letter to DOE was issued June 30, 2004. An in-tank video was taken September 5, 2003. The waste appears as a flat, dark, sludge-type waste with an irregular surface with white clumps of a saltcake-type material. Cracks in the waste surface were created as the waste was dried out by saltwell pumping. The waste surface is dry except for a small pool around the saltwell screen.
- (17) Tank 241-S-111 was declared Interim Stabilized on December 15, 2003, due to major equipment failure. This tank is in evaluation to confirm interim stabilization criteria have been met.
- (18) Tank 241-S-101 was declared Interim Stabilized on December 29, 2003. The declaration letter to DOE was issued April 30, 2004. An in-tank video was taken March 2, 2004. The waste appears to be a flat, dark, sludge-type waste with an irregular surface with white clumps of saltcake. Also visible are cracks in the waste surface that were created as the waste was dried out by saltwell pumping. The waste surface is dry except for this small pool.
- (19) Tank BY-106 was declared Interim Stabilized on December 31, 2003. This tank is in evaluation to confirm interim stabilization criteria have been met.
- (20) Tank U-108 was declared Interim Stabilized on March 18, 2004, due to major equipment failure. The declaration letter to DOE was issued September 8, 2004. An in-tank video was taken March 8, 2004. The waste is a smooth, brownish saltcake waste with irregular patches of white salt crystals that were created as the waste was dried out by saltwell pumping. The surface appears to be dry with evidence of cracking and no standing water.

Table 4-3. Single-Shell Tank Interim Stabilization Milestones - Consent Decree.

New single-shell interim stabilization milestones were negotiated in 1999 and are identified in the "Consent Decree." The Consent Decree was approved on August 16, 1999.

The following is the schedule for pumping liquid waste from the remaining 29 single-shell tanks; this schedule is enforceable pursuant to the Decree except for the "Projected Pumping Completion Dates," which are estimates only. This schedule does not include tank 241-C-106.

	Tank	Projected Pumping	Actual Pumping	Projected Pumping	Interim		
	Designation	Start Date	Start Date	Completion Date	Stabilization Date		
1.	241-T-104	Already initiated	March 24, 1996	May 30, 1999	November 19, 1999		
2.	241-T-110	Already initiated	May 12, 1997	May 30, 1999	January 5, 2000		
3.	241-SX-104	Already initiated	September 26, 1997	December 30, 2000	April 26, 2000		
4.	241-SX-106	Already initiated	October 6, 1998	December 30, 2000	May 5, 2000		
5.	241-S-102	Already initiated	March 18, 1999	March 30, 2001	(Retrieval)		
6.	241-S-106	Already initiated	April 16, 1999	March 30, 2001	February 1, 2001		
7.	241-S-103	Already initiated	June 4, 1999	March 30, 2001	April 18, 2000		
8.	241-U-103 *	June 15, 2000	September 26, 1999	April 15, 2002	September 11, 2000		
9.	241-U-105 *	June 15, 2000	December 10, 1999	April 15, 2002	March 29, 2001		
10.	241-U-102 *	June 15, 2000	January 20, 2000	April 15, 2002	June 19, 2002		
11.	241-U-109 *	June 15, 2000	March 11, 2000	April 15, 2002	April 5, 2002		
12.	241-A-101	October 30, 2000	May 6, 2000	September 30, 2003	November 10, 2003		
13.	241-AX-101	October 30, 2000	July 29, 2000	September 30, 2003	June 2, 2003		
14.	241-SX-105	March 15, 2001	August 8, 2000	February 28, 2003	August 1, 2002		
15.	241-SX-103	March 15, 2001	October 26, 2000	February 28, 2003	May 31, 2003		
16.		March 15, 2001	November 22, 2000	February 28, 2003	August 14, 2003		
17.	241-U-106 *	March 15, 2001	August 24, 2000	February 28, 2003	March 9, 2001		
18.	241-BY-106	July 15, 2001	July 11, 2001	June 30, 2003	December 31, 2003		
19.	241-BY-105	July 15, 2001	July 11, 2001	June 30, 2003	March 7, 2003		
20.	241-U-108	December 30, 2001	December 2, 2001	August 30, 2003	March 18, 2004		
21.	241-U-107	December 30, 2001	September 29, 2001	August 30, 2003	October 7, 2003		
22.	241-S-111	December 30, 2001	December 18, 2001	August 30, 2003	December 15, 2003		
23.	241-SX-102	December 30, 2001	December 15, 2001	August 30, 2003	August 28, 2003		
24.		November 30, 2002	June 14, 2002	September 30, 2003	June 25, 2003		
25.		November 30, 2002	September 23, 2000	September 30, 2003	June 11, 2001		
26.		November 30, 2002	September 21, 2002	September 30, 2003	(Retrieval)		
27.		November 30, 2002	July 27, 2002	September 30, 2003	December 29, 2003		
28.		November 30, 2002	September 4, 2002	September 30, 2003	August 28, 2003		
29.	241-C-103						
		ahead of the scheduled start date of April 2003. It is the final tank to begin pumping					
1		operations specified in this Decree. Pumping was completed in this tank on March 3, 2003.					
.	and a declaration memo that the tank has met interim stabilization criteria was issued on						
L		March 7, 2003. This	tank was declared Interi	im Stabilized on July 11	1, 2003.		

^{*} Tanks containing organic complexants.

<u>Completion of Interim Stabilization</u>. DOE will complete interim stabilization of all 29 single-shell tanks listed above by September 30, 2004.

Percentage of Pumpable Liquid Remaining to be Removed:

93% of Total Liquid	9/30/1999 (1)
38% of Organic Complexed Pumpable Liquids	9/30/2000 (2)
5% of Organic Complexed Pumpable Liquids	9/30/2001 (3)
18% of Total Liquid	9/30/2002 (4)
2% of Total Liquid	9/30/2003 (5)

The "percentage of pumpable liquid remaining to be removed" is calculated by dividing the volume of pumpable liquid remaining to be removed from tanks not yet interim stabilized by the sum of the total amount of liquid that has been pumped and the pumpable liquid that remains to be pumped from all tanks.

Footnotes:

- (1) The Pumpable Liquid Remaining was reduced to 88% by September 30, 1999. Reference LMHC-9957926 R1, D. I. Allen, LHMC, to D. C. Bryson, DOE-ORP, dated October 26, 1999.
- (2) The Complexed Pumpable Liquid Remaining was reduced to 38% by September 15, 2000. Reference CHG-0004752, R. F. Wood, CHG, to J. J. Short, DOE-ORP, dated September 13, 2000.
- Reference CHG-0104859, R. F. Wood, CHG, to J. S. O'Connor, DOE-ORP, dated September 20, 2001: this reference states that tanks U-102 and U-109 appear to have met the interim stabilization criteria, thereby reducing the Complexed Pumpable Liquid Remaining to zero. Reference CHG-0202630, dated June 20, 2002, declared tank U-109 Interim Stabilized and confirmed the completion of Consent Decree milestone, Attachment A, Item 11, as well as the partial completion of milestone D-001-004-T01. Reference CHG-0202901, dated June 28, declared tank U-102 Interim Stabilized and confirmed the completion of Consent Decree milestone, Attachment A, Item 10, as well as the partial completion of milestone D-001-004-T01.
- (4) The Pumpable Liquid Remaining was reduced to less than 18% of the total liquid by September 30, 2003. Reference CHG-204636, R. F. Wood, CHG, to J. S. O'Connor, DOE-ORP, dated September 30, 2002. The percentage of pumpable liquid remaining was 17.94% or less than 550 Kgallons.
- (5) The Pumpable Liquid Remaining was reduced to 2% of the total liquid by August 31, 2003, approximately 30 days ahead of the required completion date of September 30, 2003. The confirmation letter to DOE-ORP will be issued in September 2003. The volume of pumpable liquid remaining in the non-stabilized tanks is slightly less than 2% of the original total pumpable volume.

Table 4-4. Single-Shell Tank Leak Volume Estimates (Sheet 1 of 2)

Tank Number Assumed Leaker (3) Gallons (2) Stabilized (11) Updated Reference 241-A-103 1987 5500 (8) 06/88 1987 (j) 241-A-104 1975 500 to 2500 09/78 1983 (a)(p) 241-A-105 (1) 1963 10000 to 270000 09/79 1991 (b)(c) (b)(c) 241-AX-104 1977 - (6) 08/81 1989 (g) (h) 241-AX-104 1977 - (6) 08/81 1989 (g) (g) 241-B-101 1974 - (6) 03/81 1989 (g) (g) 241-B-103 1978 - (6) 02/85 1989 (g) (g) 241-B-105 1978 - (6) 12/84 1989 (g) (g) 241-B-105 1978 - (6) 12/84 1989 (g) (g) 241-B-105 1978 - (6) 12/84 1989 (g) (g) 241-B-110 1981 1000 (8) 03/85 1986 (d) (d)		Estimated Leak		ilmates (Sheet 1	,	Estimate
241-A-103		Confirmed or				
241-A-104			<u> </u>			
241-A-105 (1) 1963 10000 to 270000 07/79 1991 (b)(c)	<u> </u>					
241-AX-102 1988 3000 (8) 09/88 1989 (b)		<u> </u>				
241-AX-104						+
241-B-101						
241-B-103						
241-B-105 1978 (6) 12/84 1989 (g)						(g)
241-B-107 1980 8000 (8) 03/85 1986 (d)(f) 241-B-110 1981 1000 (8) 03/85 1986 (d) (d) 241-B-111 1978 (6) 06/85 1989 (g) 241-B-112 1978 2000 05/85 1989 (g) 241-B-201 1980 1200 (8) 08/81 1984 (e)(f) 241-B-203 1983 300 (8) 06/84 1986 (d) 241-B-204 1984 400 (8) 06/84 1989 (g) 241-BX-101 1972 (6) 09/78 1989 (g) 241-BX-102 1971 70000 11/78 1986 (d) 241-BX-108 1974 2500 07/79 1986 (d) 241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BX-101 1973 <- (6) 03/95 1993 (g) 241-BX-101 1976 (6) 03/95 1993 (g) 241-BX-101 1976 (6) 03/95 1993 (g) 241-BX-103 1973 <- (6) 03/95 1993 (g) 241-BY-106 1984 (6) 03/95 1993 (g) 241-BY-106 1984 (6) 03/95 1993 (g) 241-BY-106 1984 (6) 03/93 1989 (g) 241-BY-107 1984 15100 (8) 07/79 1989 (g) 241-BY-108 1972 <- (5000 02/85 1983 (a) 241-C-101 1980 20000 (8)(10) 11/83 1986 (d) 241-C-201 (4) 1988 550 03/82 1987 (i) 241-C-202 (4) 1988 400 (8) 03/82 1987 (i) 241-C-203 1984 400 (8) 03/82 1987 (i) 241-SX-104 1988 350 09/82 1987 (i) 241-SX-104 1988 350 09/82 1987 (i) 241-SX-107 1964 <- (5000 10/79 1983 (a) 241-C-204 (4) 1988 350 09/82 1987 (i) 241-SX-107 1964 <- (5000 07/79 1988 (d) 241-SX-108 1976 5500 08/79 1991 (1)(p)(s) 241-SX-109 50/14 1965 <- (6000 07/79 1986 (d) 241-SX-110 1976 5500 08/79 1991 (1)(p)(s) 241-SX-110 1976 5500 09/78 1992 (m)(s) 241-SX-111 1969 3000 07/79 1986 (d) 241-SX-112 1969 3000 07/79 1986 (d) 241-SX-113 1962 15000 07/79 1986 (d) 241-SX-115 1965 50000 09/78 1992 (n) 241-SX-115 1992 7500 (8) 09/78 1992 (n) 241-T-103 1974 <- (60 07/79 1989 (g)				<u> </u>	1	
241-B-110						(g)
241-B-111						(d)(f)
241-B-112						(d)
241-B-201 1980 1200 (8) 08/81 1984 (e)(f)		 	(6)		1989	(g)
241-B-203 1983 300 (8) 06/84 1986 (d) 241-B-204 1984 400 (8) 06/84 1989 (g) 241-BX-101 1972 (6) 09/78 1989 (g) 241-BX-102 1971 70000 11/78 1986 (d) 241-BX-108 1974 2500 07/79 1986 (d) 241-BX-110 1976 (6) 08/85 1989 (g) 241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	<u> </u>		2000	05/85	1989	(g)
241-B2-04 1984 400 (8) 06/84 1989 (g) 241-BX-101 1972 - (6) 09/78 1989 (g) 241-BX-102 1971 70000 11/78 1986 (d) 241-BX-108 1974 2500 07/79 1986 (d) 241-BX-110 1976 - (6) 08/85 1989 (g) 241-BX-111 1984 (13) - (6) 03/95 1993 (g) 241-BY-103 1973 <5000			1200 (8)	08/81	1984	(e)(f)
241-BX-101 1972 (6) 09/78 1989 (g) 241-BX-102 1971 70000 11/78 1986 (d) 241-BX-108 1974 2500 07/79 1986 (d) 241-BX-110 1976 (6) 08/85 1989 (g) 241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	——————————————————————————————————————		300 (8)	06/84	1986	(d)
241-BX-102 1971 70000 11/78 1986 (d) 241-BX-108 1974 2500 07/79 1986 (d) 241-BX-110 1976 (6) 08/85 1989 (g) 241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	241-B-204	1984	400 (8)	06/84	1989	(g)
241-BX-108 1974 2500 07/79 1986 (d) 241-BX-110 1976 (6) 08/85 1989 (g) 241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	241-BX-101	1972	(6)	09/78	1989	(g)
241-BX-110 1976 (6) 08/85 1989 (g) 241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	241-BX-102	1971	70000	11/78	1986	(d)
241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	241-BX-108	1974	2500	07/79	1986	(d)
241-BX-111 1984 (13) (6) 03/95 1993 (g) 241-BY-103 1973 <5000	241-BX-110	1976	(6)	08/85	1989	
241-BY-103 1973 <5000	241-BX-111	1984 (13)	(6)	03/95	1993	
241-BY-105 1984 (6) 03/03 1989 (g) 241-BY-106 1984 (6) N/A 1989 (g) 241-BY-107 1984 15100 (8) 07/79 1989 (g) 241-BY-108 1972 <5000	241-BY-103					
241-BY-106 1984 (6) N/A 1989 (g) 241-BY-107 1984 15100 (8) 07/79 1989 (g) 241-BY-108 1972 <5000	241-BY-105	1984	(6)		·———	
241-BY-107 1984 15100 (8) 07/79 1989 (g) 241-BY-108 1972 <5000	241-BY-106	1984	——————————————————————————————————————			
241-BY-108 1972 <5000	241-BY-107	1984				
241-C-101 1980 20000 (8)(10) 11/83 1986 (d) 241-C-110 1984 2000 05/95 1989 (g) 241-C-111 1968 5500 (8) 03/84 1989 (g) 241-C-201 (4) 1988 550 03/82 1987 (i) 241-C-202 (4) 1988 450 08/81 1987 (i) 241-C-203 1984 400 (8) 03/82 1986 (d) 241-S-104 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000 10/79 1983 (a)	241-BY-108	1972				
241-C-110 1984 2000 05/95 1989 (g) 241-C-111 1968 5500 (8) 03/84 1989 (g) 241-C-201 (4) 1988 550 03/82 1987 (i) 241-C-202 (4) 1988 450 08/81 1987 (i) 241-C-203 1984 400 (8) 03/82 1986 (d) 241-C-204 (4) 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000	241-C-101	1980				
241-C-111 1968 5500 (8) 03/84 1989 (g) 241-C-201 (4) 1988 550 03/82 1987 (i) 241-C-202 (4) 1988 450 08/81 1987 (i) 241-C-203 1984 400 (8) 03/82 1986 (d) 241-C-204 (4) 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000	241-C-110		,			
241-C-201 (4) 1988 550 03/82 1987 (i) 241-C-202 (4) 1988 450 08/81 1987 (i) 241-C-203 1984 400 (8) 03/82 1986 (d) 241-C-204 (4) 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000	241-C-111					
241-C-202 (4) 1988 450 08/81 1987 (i) 241-C-203 1984 400 (8) 03/82 1986 (d) 241-C-204 (4) 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000						
241-C-203 1984 400 (8) 03/82 1986 (d) 241-C-204 (4) 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000						
241-C-204 (4) 1988 350 09/82 1987 (i) 241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000						
241-S-104 1968 24000 (8) 12/84 1989 (g) 241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000 10/79 1983 (a)						
241-SX-104 1988 6000 (8) 04/00 1988 (k) 241-SX-107 1964 <5000		 			+ 	
241-SX-107 1964 <5000 10/79 1983 (a) 241-SX-108 (5)(14) 1962 2400 to 35000 08/79 1991 (!)(p)(s) 241-SX-109 (5)(14) 1965 <10000						(4)
241-SX-108 (5)(14) 1962 2400 to 35000 08/79 1991 (l)(p)(s) 241-SX-109 (5)(14) 1965 <10000						
241-SX-109 (5)(14) 1965 <10000						
241-SX-110 1976 5500 (8) 08/79 1989 (g) 241-SX-111 (14) 1974 500 to 2000 07/79 1986 (d)(s) 241-SX-112 (14) 1969 30000 07/79 1986 (d)(s) 241-SX-113 1962 15000 11/78 1986 (d) 241-SX-114 1972 (6) 07/79 1989 (g) 241-SX-115 1965 50000 09/78 1992 (n) 241-T-101 1992 7500 (8) 04/93 1992 (o) 241-T-103 1974 <1000 (8)					+	
241-SX-111 (14) 1974 500 to 2000 07/79 1986 (d)(s) 241-SX-112 (14) 1969 30000 07/79 1986 (d)(s) 241-SX-113 1962 15000 11/78 1986 (d) 241-SX-114 1972 (6) 07/79 1989 (g) 241-SX-115 1965 50000 09/78 1992 (n) 241-T-101 1992 7500 (8) 04/93 1992 (o) 241-T-103 1974 <1000 (8)						
241-SX-112 (14) 1969 30000 07/79 1986 (d)(s) 241-SX-113 1962 15000 11/78 1986 (d) 241-SX-114 1972 (6) 07/79 1989 (g) 241-SX-115 1965 50000 09/78 1992 (n) 241-T-101 1992 7500 (8) 04/93 1992 (o) 241-T-103 1974 <1000 (8)						
241-SX-113 1962 15000 11/78 1986 (d) 241-SX-114 1972 (6) 07/79 1989 (g) 241-SX-115 1965 50000 09/78 1992 (n) 241-T-101 1992 7500 (8) 04/93 1992 (o) 241-T-103 1974 <1000 (8)						
241-SX-114 1972 (6) 07/79 1989 (g) 241-SX-115 1965 50000 09/78 1992 (n) 241-T-101 1992 7500 (8) 04/93 1992 (o) 241-T-103 1974 <1000 (8)						
241-SX-115 1965 50000 09/78 1992 (n) 241-T-101 1992 7500 (8) 04/93 1992 (o) 241-T-103 1974 <1000 (8)		 				
241-T-101 1992 7500 (8) 04/93 1992 (0) 241-T-103 1974 <1000 (8)						
241-T-103 1974 <1000 (8) 11/83 1989 (g)						
241 77 100					·—	
241717100 1 1975 1 15000 1 09/21 1002 1 735	241-T-106	1973	115000 (8)	08/81	1989	(g) (d)

Table 4-4. Single-Shell Tank Leak Volume Estimates (Sheet 2 of 2)

	Estimated Leak			Leak I	Estimate
	Confirmed or	Volume	Interim		
Tank Number	Assumed Leaker (3)	Gallons (2)	Stabilized (11)	Updated	Reference
241-T-107	1984	(6)	05/96	1989	(g)
241-T-108	1974	<1000 (8)	11/78	1980	(f)
241-T-109	1974	<1000 (8)	12/84	1989	(g)
241-T-111	1979, 1994 (12)	<1000 (8)	02/95	1994	(f)(r)
241-TX-105	1977	(6)	04/83	1989	(g)
241-TX-107 (5)	1984	2500	10/79	1986	(d)
241-TX-110	1977	(6)	04/83	1989	(g)
241-TX-113	1974	(6)	04/83	1989	(g)
241-TX-114	1974	(6)	04/83	1989	(g)
241-TX-115	1977	(6)	09/83	1989	(g)
241-TX-116	1977	(6)	04/83	1989	(g)
241-TX-117	1977	(6)	03/83	1989	(g)
241-TY-101	1973	<1000 (8)	04/83	1980	(f)
241-TY-103	1973	3000	02/83	1986	(d)
241-TY-104	1981	1400 (8)	11/83	1986	(d)
241-TY-105	1960	35000	02/83	1986	(d)
241-TY-106	1959	20000	11/78	1986	(d)
241 - U-101	1959	30000	09/79	1986	(d)
241-U-104	1961	55000	10/78	1986	(d)
241-U-110	1975	5000 to 8100 (8)	12/84	1986	(d)(p)
241-U-112	1980	8500 (8)	09/79	1986	(d)
67 Tanks					

Table 4-4. - Footnotes:

- Current estimates [see Reference (b)] are that 610 Kgallons of cooling water was added to tank A-105 from November 1970 to December 1978 to aid in evaporative cooling. In accordance with <u>Dangerous Waste Regulations</u> [Washington Administrative Code 173-303-070 (2)(a)(ii), as amended, Washington State Department of Ecology, 1990, Olympia, Washington], any of this cooling water that has been added and subsequently leaked from the tank must be classified as a waste and should be included in the total leak volume. In August 1991, the leak volume estimate for this tank was updated in accordance with the WAC regulations. Previous estimates excluded the cooling water leaks from the total leak volume estimates because the waste content (concentration) in the cooling water which leaked should be much less than the original liquid waste in the tank (the sludge is relatively insoluble). The total leak volume estimate in this report (10 to 277 Kgallons) is based on the following (see References):
 - a. Reference (b) contains an estimate of 5 to 15 Kgallons for the initial leak prior to August 1968.

Reference (b) contains an estimate of 5 to 30 Kgallons for the leak while the tank was being sluiced from August 1968 to November 1970.

Reference (b) contains an estimate of 610 Kgallons of cooling water added to the tank from November 1970 to December 1978, but it was estimated that the leakage was small during this period. This reference contains the statement "Sufficient heat was generated in the tank to evaporate most, and perhaps nearly all, of this water." This results in a low estimate of zero gallons leakage from November 1970 to December 1978.

b. Reference (c) contains an estimate that 378 to 410 Kgallons evaporated out of the tank from November 1970 to December 1978. Subtracting the minimum evaporation estimate from the cooling water added estimate provides a range from 0 to 232 Kgallons of cooling water leakage from November 1970 to December 1978.

Table 4-4. - Footnotes continued

	Low Estimate	High Estimate
Prior to August 1968	5,000	15,000
August 1968 to November 1970	5,000	30,000
November 1970 to December 1978	0	<u>232,000</u>
Totals	10,000	277,000

- Tank leak volume estimates presented here are being updated as a result of additional vadose zone data, tank leak volume assessments and review of tanks for retrieval/closure consideration. Future revisions of the tank summary report will include updated leak volume and radionuclide inventory estimates by farm and will include near surface and vadose contamination from sources in addition to tank leaks that will be used for tank closure planning and performance assessments. Tank leak volume estimates presented here do not include (with some exceptions), such things as: (a) cooling/raw water leaks, (b) intrusions (rain infiltration) and subsequent leaks, (c) leaks inside the tank farm but not through the tank liner (surface leaks, pipeline leaks, leaks at the joint for the overflow or fill lines, etc.), and (d) leaks from catch tanks, diversion boxes, encasements, etc.
- In many cases, a leak was suspected long before it was identified or confirmed. For example, Reference (d) shows that tank U-104 was suspected of leaking in 1956. The leak was confirmed in 1961. This report lists the "assumed leaker" date of 1961. Using present standards, tank U-104 would have been declared an assumed leaker in 1956. In 1984, the criteria designations of "suspected leaker," "questionable integrity," "confirmed leaker," "declared leaker," and "borderline and dormant" were merged into one category now reported as "assumed leaker." See Reference (f) for explanation of when, how long, and how fast some of the tanks leaked. It is highly likely that there have been undetected leaks from single-shell tanks because of the nature of their design and instrumentation.
- (4) The leak volume estimate date for these tanks is before the declared leaker date because the tank was in a suspected leaker or questionable integrity status; however, a leak volume had been estimated prior to the tank being reclassified.
- The increasing radiation levels in drywells and laterals associated with these three tanks could be indicating continuing leak or movement of existing radionuclides in the soil. There is no conclusive way to confirm these observations. (Repeat spectral drywell scans are not part of the current Tank Farm leak detection program but can be run on request a special needs arise. A select subset of drywells is routinely monitored by the Vadose Zone Characterization Project to assess movement of gamma-emitting radionuclides in the subsurface. There are currently no functioning laterals and no plan to prepare them for use).
- Methods were used to estimate the leak volumes from these 19 tanks based on the <u>assumption</u> that their cumulative leakage is approximately the same as for 18 of the 24 tanks identified in footnote (9). For more details see Reference (g). The total leak volume estimate for these tanks is 150 Kgallons (rounded to the nearest Kgallon), for an average of approximately 8 Kgallons for each of 19 tanks.
- (7) The total has been rounded to the nearest 50 Kgallons. Upper bound values were used in many cases in developing these estimates. It is likely that some of these tanks have not actually leaked.
- (8) Leak volume estimate is based solely on observed liquid level decreases in these tanks. This is considered to be the most accurate method for estimating leak volumes.
- (9) The curie content shown is as listed in the reference document and is <u>not</u> decayed to a consistent date: therefore, a cumulative total is inappropriate.
- Tank C-101 experienced a liquid level decrease in the late 1960s and was taken out of service and pumped to a minimum heel in December 1969. In 1970, the tank was classified as a "questionable integrity" tank. Liquid level data show decreases in level throughout the 1970s and the tank was saltwell pumped during the 1970s, ending in April 1979. The tank was reclassified as a "confirmed leaker" in January 1980. See References (p) and (q); refer to Reference (q) for information on the potential for there to have been leaks from other C-farm tanks (specifically, C-102, C-103, and C-109).
- These dates indicate when the tanks were declared to be interim stabilized. In some cases, the official interim stabilization documents were issued at a later date. Also, in some cases, the field work associated with interim stabilization was completed at an earlier date.

Table 4-4. Footnotes continued

- (12) Tank T-111 was declared an "assumed re-leaker" on February 28, 1994, due to a decreasing trend in surface level measurement. This tank was pumped, and interim stabilization completed on February 22, 1995.
- (13) Tank BX-111 was declared an "assumed re-leaker" in April 1993. Preparations for pumping were delayed, following an administrative hold placed on all tank farm operations in August 1993. Pumping resumed and the tank was declared interim stabilized on March 15, 1995.
- The leak volume and curie release estimates on tanks SX-108, SX-109, SX-111, and SX-112 have been re-evaluated using a Historical Leak Model [see Reference (s)]. In general, the model estimates are much higher than the values listed in the table, both for volume and curies released. The values listed in the table do not reflect this revised estimate because, "In particular, it is worth emphasizing that this report was never meant to be a definitive update for the leak baseline at the Hanford Site. It was rather meant to be an attempt to view the issue of leak inventories with a new and different methodology." (This quote is from the first page of the referenced report).
- (15) Tri-Party Agreement milestones (M-45 series) were developed that establish a formalized approach for evaluating impacts on groundwater quality of loss of tank wastes to the vadose zone underlying these tank farms.

SST Vadose Zone Project drilling and testing activities near tank BX-102 were completed in March 2001. A borehole (299-E33-45) was drilled through the postulated uranium plume resulting from the 1951 tank BX-102 overfill event to confirm the presence of uranium, define its present depth, and survey other contaminants of interest such as Tc-99. Samples were collected for laboratory analyses.

Borehole W33-46, adjacent to tank B-110, was drilled to a depth of approximately 190 feet in July 2001. Soil samples were collected for analysis as part of the tank farm vadose zone characterization activities.

On July 31, 2002, the Washington State Department of Ecology issued a letter-directive which suggested a path forward in dealing with the high ⁹⁹Tc activity in groundwater at well 299-W23-19 near tank SX-115. No formal remediation is required, however, extensive purging of the well is to be done concurrent with quarterly sampling. In addition, an array of specific conductivity probes is to be placed in the well to monitor the electrical properties of the water (⁹⁹Tc activity is directly proportional to electrical conductivity). A data logger with remote reading capability together with the specific conductivity probes was installed and fully operational on March 11, 2003.

Table 4-4. - References:

- (a) Murthy, K. S., et al., June 1983, Assessment of Single-Shell Tank Residual Liquid Issues at Hanford Site, Washington, PNL-4688, Pacific Northwest Laboratory, Richland, Washington.
- (b) WHC, 1991a, *Tank 241-A-105 Leak Assessment*, WHC-MR-0264, Westinghouse Hanford Company, Richland, Washington.
- (c) WHC, 1991b, Tank 241-A-105 Evaporation Estimate 1970 Through 1978, WHC-EP-0410, Westinghouse Hanford Company, Richland, Washington.
- (d) Smith, D. A., January 1986, Single-Shell Tank Isolation Safety Analysis Report, SD-WM-SAR-006, Rev. 1, Rockwell Hanford Operations, Richland, Washington.
- (e) McCann, D. C., and T. S. Vail, September 1984, Waste Status Summary, RHO-RE-SR-14, Rockwell Hanford Operations, Richland, Washington.
- (f) Catlin, R. J., March 1980, Assessment of the Surveillance Program of the High-Level Waste Storage Tanks at Hanford, Office of Environmental Compliance and Review, for the U.S. Department of Energy, Washington D.C.
- (g) Baumhardt, R. J., May 15, 1989, Letter to R. E. Gerton, U.S. Department of Energy-Richland Operations Office, Single-Shell Tank Leak Volumes, 8901832B R1, Westinghouse Hanford Company, Richland, Washington.
- (h) WHC, 1990a, Occurrence Report, Surface Level Measurement Decrease in Single-Shell Tank 241-AX-102, WHC-UO-89-023-TF-05, Westinghouse Hanford Company, Richland, Washington.
- (i) Groth, D. R., July 1, 1987, Internal Memorandum to R. J. Baumhardt, *Liquid Level Losses in Tanks* 241-C-201, -202 and -204, 65950-87-517, Westinghouse Hanford Company, Richland, Washington.
- (j) Groth, D. R., and G. C. Owens, May 15, 1987, Internal Memorandum to J. H. Roecker, Tank 103-A Integrity Evaluation, Rockwell Hanford Operations, Richland, Washington.
- (k) Dunford, G. L., July 8, 1988, Internal Memorandum to R. K. Welty, Engineering Investigation: Interstitial Liquid Level Decrease in Tank 241-SX-104, 13331-88-416, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1992a, Tank 241-SX-108 Leak Assessment, WHC-MR-0300, Westinghouse Hanford Company, Richland, Washington.
- (m) WHC, 1992b, Tank 241-SX-109 Leak Assessment, WHC-MR-0301, Westinghouse Hanford Company, Richland, Washington.
- (n) WHC, 1992c, Tank 241-SX-115 Leak Assessment, WHC-MR-0302, Westinghouse Hanford Company, Richland, Washington.
- (0) WHC, 1992d, Occurrence Report, Apparent Decrease in Liquid Level in Single Shell Underground Storage Tank 241-T-101, Leak Suspected; Investigation Continuing, RL-WHC-TANKFARM-1992-0073, Westinghouse Hanford Company, Richland, Washington.
- (p) WHC,1990b, A History of the 200 Area Tank Farms, WHC-MR-0132, Westinghouse Hanford Company, Richland, Washington.
- (q) WHC, 1993, Assessment of Unsaturated Zone Radionuclide Contamination Around Single-Shell Tanks 241-C-105 and 241-C-106, WHC-SD-EN-TI-185, REV OA, Westinghouse Hanford Company, Richland, Washington.
- (r) WHC, 1994, Occurrence Report, Apparent Liquid Level Decrease in Single Shell Underground Storage Tank 241-T-111; Declared an Assumed Re-Leaker, RL-WHC-TANKFARM-1994-0009, Westinghouse Hanford Company, Richland, Washington.
- (s) HNF, 1998, Agnew, S. F., and R. A. Corbin, August 1998, Analysis of SX Farm Leak Histories Historical Leak Model (HLM), HNF-3233, Rev. 0, Los Alamos National Laboratory, Los Alamos, New Mexico.

5.0 MISCELLANEOUS UNDERGROUND STORAGE TANKS AND SPECIAL SURVEILLANCE FACILITIES

Table 5-1. East and West Area Miscellaneous Underground Storage Tanks and Special Surveillance Facilities.

ACTIVE - still running transfers through the associated diversion boxes or pipeline encasements								
		Receives Waste	Waste					
Facility	Location	From:	(Gallons)	Monitored By:	Remarks			
EAST AREA	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · · · · · · · · · · · · · ·				
241-A-302-A	A Farm	A-151 DB	673	SACS/ENRAF/TMACS				
241-ER-311	B Plant	ER-151, ER-152 DB	3591	SACS/ENRAF/Manual	Pumped to AP-108, 1/04			
241-AZ-151	AZ Farm	AZ-702 Condensate	4306	SACS/ENRAF/TMACS	Volume changes daily - pumped to AZ-101 or AY-102 as needed			
241-AZ-154	AZ Farm		25	SACS/MT				
244-BX-TK-SMP	BX Complex	DCRT - Receives from several farms	17979	SACS/MT	Receives transfers and is pumped as needed			
244-A-TK/SMP	A Complex	DCRT - Receives from several farms	57769	MCS/SACS/WTF	WTF - Receives transfers and is pumped as needed			
A-350	A Farm	Collects drainage	384	MCS/SACS/WTF	WTF (uncorrected), pumped as needed			
AR-204	AY Farm	Tanker trucks from various facilities	925	DIP TUBE				
A-417	A Farm		1176	SACS/WTF	WTF - Pumped to AP-102, 3/03			
CR-003-TK-SMP	C Farm	DCRT	2936	MT/ZIP CORD	Zip cord in sump O/S; water intrusion, 1/98			
WEST AREA								
241-TX-302-C	T Plant	TX-154 DB	178	SACS/ENRAF/TMACS				
241-U-301-B	U Farm	U-151, 152, 153, 252 DB	1458	SACS/ENRAF/Manual	Pumped to SY-101, 12/03			
241-UX-302-A	U Plant	UX-154	1788	SACS/ENRAF/Manual	Rain intrusion 2/03; recalibration caused decrease 6/03			
241-S-304	S Farm	S-151 DB	135	SACS/ENRAF/Manual	Sump not alarming			
244-S-TK/SMP	S Farm	From SSTs for transfer to SY-102	8580	SACS/Manual	WTF (uncorrected)			
244-TX-TK/SMP	TX Farm	From SSTs and PFP for transfer to SY-102	5074	SACS/Manual	Transferred to SY-102, 1/04			
Vent Station Catch Tank		Cross Site Transfer Line	475	SACS/Manual	MT. Rain intrusion, 1/03			
	Total Active Facilities - 17							

LEGEND:	
DB	Diversion Box
DCRT	Double-Contained Receiver Tank
ENRAF, MT, Zip Cord	Surface Level Measurement Devices
MCS	Monitor and Control System
Manual	Not connected to any automated system
O/S	Out of Service
PFP	Plutonium Finishing Plant
SACS	Surveillance Automated Control System
SST	Single-Shell Tank
TMACS	Tank Monitor and Control System
WTF	Weight Factor (can be recorded as WTF, WTF [uncorrected] or CWF [uncorrected])

Table 5-2. East Area Inactive Miscellaneous Underground Storage Tanks and Special Surveillance Facilities.

111/2	ACTIVE - NO JOH	ger receiving waste transfe			y Tank Farm Contractor
			Waste	Monitored	
Facility	Location	Received Waste From:	(Gallons)	By:	Remarks
209-E-TK-111	209 E Bldg.	Decon Catch Tank	Unknown	NM	Removed from service 1988
241-A-302-B	A Farm	A-152 DB	6110	SACS/MT	Isolated 1985, Project B-138, Interim Stabilized 1990, rain intrusion
241-AX-151	N. of PUREX	PUREX	Unknown	NM	Isolated 1985
241-AX-152	AX Farm	AX-152 DB	0	SACS/MT	Declared Assumed Leaker, pumped to AY-102, 3/01, no longer being used
241-B-301-B	B Farm	B-151, 152, 153, 252 DB	22250	NM	Isolated 1985 (1)
241-B-302-B	B Farm	B-154 DB	4930	NM	Isolated 1985 (1)
241-BX-302-A	BX Farm	BR-152, BX-153, BXR- 152, BYR-152 DB	840	NM	Isolated 1985 (1)
241-BX-302-B	BX Farm	BX-154 DB	1040	NM	Isolated 1985 (1)
241-BX-302-C	BX Farm	BX-155 DB	870	NM	Isolated 1985 (1)
241-BY-ITS2- TK 1	BY Farm	Vapor condenser	Unknown	NM	Isolated
241-BY-ITS2- TK 2	BY Farm	Heater Flush Tank	Unknown	NM	Stabilized 1977
241-C-301-C	C Farm	C-151, 152, 153, 252 DB	10470	NM	Isolated 1985 (1)
241-ER-311A	SW of B Plant	ER-151 DB	Empty	NM	Abandoned in place 1954
241-AR Vault	A Complex	Between farms and B Plant	Unknown	NM	Stabilized 8/03, RPP-12051
241-BXR- TK/SMP-001	BX Farm	Transfer lines	7200	NM	Interim Stabilization 1985 (1)
241-BXR- TK/SMP-002	BX Farm	Transfer Lines	2180	NM	Interim Stabilization 1985 (1)
241-BXR- TK/SMP-003	BX Farm	Transfer Lines	1810	NM	Interim Stabilization 1985 (1)
241-BXR- TK/SMP-004	BX Farm	Transfer Lines	7100	NM	Interim Stabilization 1985 (1)

LEGEND:	
DB	Diversion Box
MT	Surface Level measurement Device
NM	Not Monitored
SACS	Surveillance Automated Control System
TK, SMP	Tank, Sump

⁽¹⁾ WHC-SD-WM-TI-356, Waste Storage Tank Status and Leak Detection Criteria, Rev. 0, September 30, 1988

Table 5-3. West Area Inactive Miscellaneous Underground Storage Tanks and Special Surveillance Facilities.

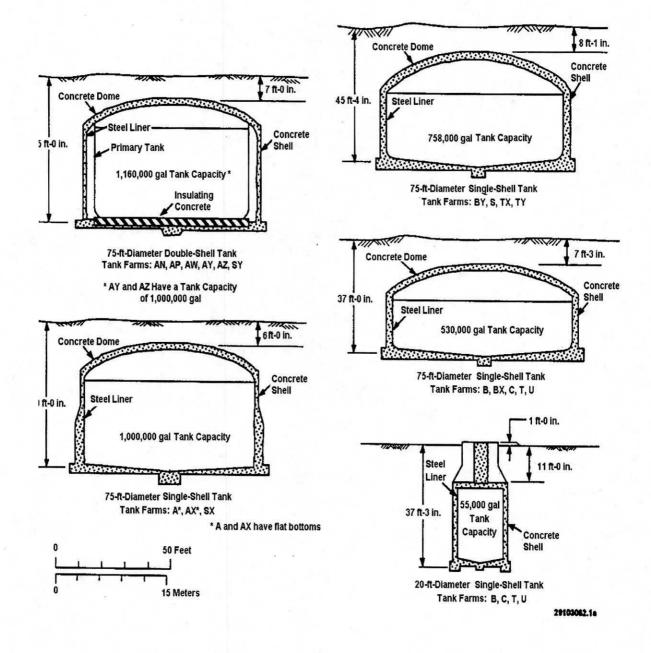
INACTIVE - No longer receiving waste transfers - currently managed by Tank Farm Contractor						
	Waste Monitored					
Facility	Location	Received Waste From:	(Gallons)_	By:	Remarks	
213-W-TK-1	E. of 213-W	Water Retention Tank	Unknown	NM	Contains only water	
	Compactor Facility					
231-W-151-001	N. of Z Plant	231-Z Floor drains	Unknown	NM	Inactive, last data 1974	
231-W-151-002	N. of Z Plant	231-Z Floor drains	Unknown	NM	Inactive, last data 1974	
240-S-302	S Plant	240-S-151-DB	8162		Assumed Leaker, EPDA 85-04	
241-S-302-A	S Farm	241-S-151-DB	0		Assumed Leaker TF-EFS-90-042	
	intrusion readir	gs obtainable. S-304 (activ		02	r leak test. No surface level or	
241-S-302-B	SX Farm	S Encasements	Empty	NM	Isolated 1985 (1)	
241-SX-302 (SX-304)	SX Farm	SX-151 DB, 151 TB	Unknown	NM	Isolated 1987	
241-T-301	T Farm	DB T-151, 151, 153,	Unknown	NM	Isolated 1985 (T-301-B)	
	<u> </u>	252				
241-TX-302	TX Farm	TX-153 DB	Unknown	NM	Isolated 1985 (1)	
241-TX-302-X-B	TX Farm	TX Encasements	Unknown	NM	Isolated 1985 (1)	
241-TX-302-B	E. of TX	TX-155 DB	3248	SACS/	New ENRAF installed 9/02	
	Farm			ENRAF		
241-TX-302-B(R)	E. of TX	TX-155 DB	Unknown	NM	Isolated, replaced TX-302-B	
	Farm					
241-TY-302-A	TY Farm	TX-153 DB	Unknown	NM	Isolated 1985 (1)	
241-TY-302-B	TY Farm	TY Encasements	Empty	NM	Isolated 1985 (1)	
241-Z-8	E. of Z Plant	Recuplex waste	Unknown	NM	Isolated, 1974, 1975	
242-T-135	T Evaporator	T Evaporator	Unknown	NM	Isolated	
242-TA-R1	T Evaporator	Z Plant waste	Unknown	NM	Isolated	
243-S-TK-1	NW of S	Personnel Decon.	Empty	NM	Isolated	
	Farm	Facility	L			
244-TXR-TK/SMP- 001	TX Farm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed 1984 (1)	
244-TXR-TK/SMP-	TX Farm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed	
002					1984 (1)	
244-TXR-TK/SMP-	TX Farm	Transfer lines	Unknown	NM	Interim Stabilized, MT removed	
003	1	1			1984 (1)	
244-UR-001 Vault TK	U Farm	Tank, Sump and Cell	4220	NM	Stabilized 1985	
244-UR-002 Vault TK	U Farm	Tank, Sump and Cell	1400	NM	Stabilized 1985	
244-UR-003 Vault TK	U Farm	Tank, Sump and Cell	5996	NM	Stabilized 1985	
244-UR-004 Vault TK	U Farm	Tank, Sump and Cell	Empty	NM	Stabilized 1985	
		Total East Area Inact				

LEGEND:	
DB, TD	Diversion Box, Transfer Box
FIC, ENRAF	Surface Level Measurement Devices
MT	Manual Tape - Surface Level measurement Device
NM	Not Monitored
SACS	Surveillance Automated Control System
TK, SMP	Tank, Sump
SACS	Surveillance Automated Control System
TK, SMP	Tank, Sump

⁽¹⁾ WHC-SD-WM-TI-356, Waste Storage Tank Status and Leak Detection Criteria, Rev. 0, September 30, 1988

APPENDIX A - TANK CONFIGURATION AND FACILITIES CHARTS

Figure A-1. High Level Waste Tank Configurations



Surface Level Probe (FIC, ENRAF and Manual Tape) **Solids Level Detector Camera Observation Port Dome Elevation** Bench Mark **Exhaust Stack** Continues Annulus Pump Pit **Air Flow Monitor Leak Detection Pit** Temperature Thermocouple Assembly Primary Steel Liner **Operating Liquid Level** Secondary Steel Supernatant Liner Pump Pit Sludge Reinforced Concrete Concrete Tank **Steel Liners Annulus** G01010070.1

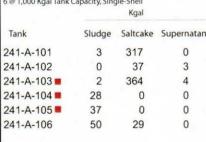
Figure A-2. Double-Shell Tank Instrumentation Configuration

Liquid Observation Well Camera Surface Level Probe (FIC, ENRAF and Manual Tapes) Observation Solids Level **Point** Dome Elevation Bench Mark Detector **Temperature** Center Leak Thermocouple Detection **Pump Pit** Exhauster (Hi-HeatTanks Only) Assembly Drywell A CONTRACTOR OF THE PARTY OF TH Reinforced Saltwell Screen Concrete Tank Supernatant Steel Liner Saltcake and/or Sludge Interstitial Liquid Level Leak Detection Drywells A&SX Farms Only G01010070.2 Hanion

Figure A-3. Single-Shell Tank Instrumentation Configuration

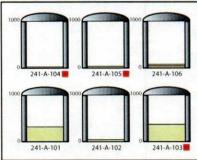
200 East Tank Waste Contents







Tank	Sludge	Saltcake	Supernatan
241-AN-101	0	31	928
241-AN-102	0	134	938
241-AN-103	0	459	500
241-AN-104	0	445	608
241-AN-105	0	538	587
241-AN-106	29	17	841
241-AN-107	0	230	872

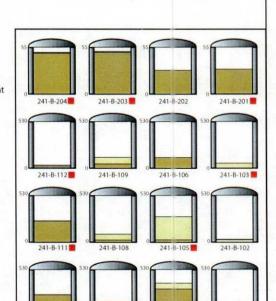


1160		
0		
241-AN-107		100
1160	60	160
0	o	0
241-AN-106	241-AN-105	241-AN-104
1160	60	160
here!		
		0
241-AN-103	241-AN-102	241-AN-101

AZ-Tank Fa		uble-Shell	
		Kgal	
Tank	Sludge	Saltcake	Supernatant
241-AZ-101	52	0	868
241-AZ-102	105	0	878

B-Tank Farm- 1945-47 12 @ 530 Kgal Tank Capacity, Single-Shell 4 @ 55 Kgal Tank Capacity, Single-Shell

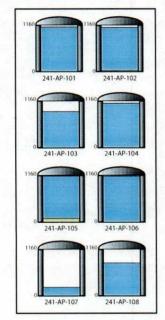
		Kgal	
Tank	Sludge	Saltcake	Supernatan
241-B-101	28	81	0
241-B-102	0	28	4
241-B-103	1	55	0
241-B-104	309	65	0
241-B-105	28	262	0
241-B-106	122	0	1
241-B-107	86	75	0
241-B-108	27	65	0
241-B-109	50	75	0
241-B-110	244	0	1
241-B-111	241	0	1
241-B-112	15	17	3
241-B-201	29	0	0
241-B-202	28	0	0
241-B-203	49	0	1
241-B-204	48	0	1



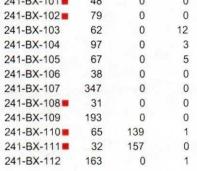
241-AZ-101

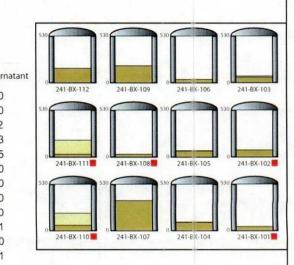
AP-Tank Farm-1986 8 @ 1,160 Kgal Tank Capacity, Double-Shell

Tank	Sludge	Saltcake	Supernatar
241-AP-101	0	0	1111
241-AP-102	23	0	1075
241-AP-103	0	0	894
241-AP-104	0	0	1100
241-AP-105	0	89	1050
241-AP-106	0	0	1137
241-AP-107	0	0	210
241-AP-108	0	0	817



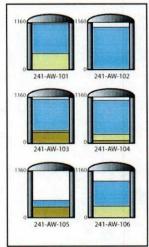
BX-Tank Far			
		Kgal	
Tank	Sludge	Saltcake	Superi
241-BX-101	48	0	0
241-BX-102	79	0	0
241-BX-103	62	0	12
241-BX-104	97	0	3





AW-Tank Farm-1980 6 @ 1,160 Kgal Tank Capacity, Double-Shell

	gar		
Tank	Sludge	Saltcake	Supernatan
241-AW-101	0	396	731
241-AW-102	7	0	1033
241-AW-103	273	40	787
241-AW-104	66	157	851
241-AW-105	263	0	158
241-AW-106	0	283	619



12 @ 758 Kgal Tank Co	apacity, Sing	le-Shell Kgal	
Tank	Sludge	Saltcake	Supernata
241-BY-101	37	333	0
241-BY-102	0	279	0
241-BY-103	9	408	0
241-BY-104	45	313	0
241-BY-105	48	433	0
241-BY-106	32	430	0
241-BY-107	16	256	0
241-BY-108	40	182	0
241-BY-109	24	263	0
241-BY-110	43	323	0
241-BY-111	0	301	0

BY-Tank Farm- 1950-51

241-BY-112

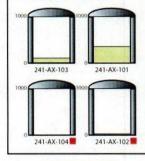
C-Tank Farm- 1946-53

12 @ 530 Kgal Tank Capacity, Single-Shell 4 @ 55 Kgal Tank Capacity, Single-Shell

758	758	758	58
241-BY-112	241-BY-109	241-BY-106	241-BY-103
758 0 241-BY-111	0 241-BY-108	241-BY-105	241-BY-102
758 0 241-8Y-110	758 0 241-BY-107	758 0 241-BV-104	241-BY-101

AX-Tank Farm- 1965-66 4 @ 1,000 Kgal Tank Capacity, Single-Shell

Tank	Sludge	Saltcake	Supernata
241-AX-101	3	355	0
241-AX-102	6	24	0
241-AX-103	8	99	0
241-AX-104	7	0	0



Tank	Sludge	Saltcake	Supernatan
241-C-101	88	0	0
241-C-102	316	0	0
241-C-103	71	0	1
241-C-104	259	0	0
241-C-105	132	0	0
241-C-106	3	0	0
241-C-107	247	0	0
241-C-108	66	0	0
241-C-109	63	0	0
241-C-110	177	0	1
241-C-111	57	0	0
241-C-112	104	0	0
241-C-201	1	0	0
241-C-202	0*	0	0
241-C-203	1	0	0
Carriero Tarrica Carrette	1725	0.87	100

Tank	Sludge	Saltcake	Supernatant
241-C-101	88	0	0
241-C-102	316	0	0
241-C-103	71	0	1
241-C-104	259	0	0
241-C-105	132	0	0
241-C-106	3	0	0
241-C-107	247	0	0
241-C-108	66	0	0
241-C-109	63	0	0
241-C-110	177	0	1
241-C-111	57	0	0
241-C-112	104	0	0
241-C-201	1	0	0
241-C-202	0*	0	0
241-C-203	1	0	0
241-C-204	2	0	0
4			

284

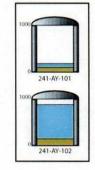
0

241-C-204	241-C-203	241-C-202	0 241-C-201
			0
241-C-112 530	241-C-109	241-€-106	241-C-103
241-C-111	241-C-108	241-€-105	241-C-102
241-C-110	241-C-107	241-0-104	241-C-101

Data Derived From Waste Tank Summary Report Dated 09/30/04

AY-Tank Farm- 1971-76 2 @ 1,000 Kgal Tank Capacity, Double-Shell

1				
	Tank	Sludge	Saltcake	Supernatant
	241-AY-101 241-AY-102	96	0	83
	241-AY-102	151	0	727



LEGEND

A-4/5

Sludge	Saltcake	





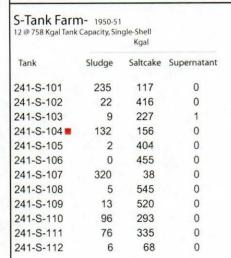


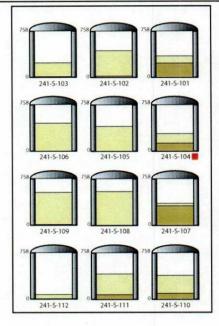


(Less than 500 gallons)

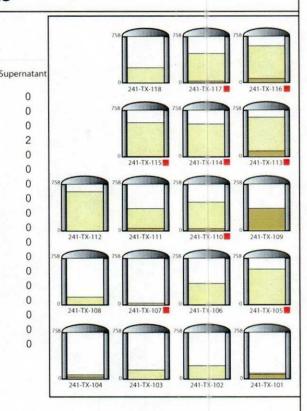






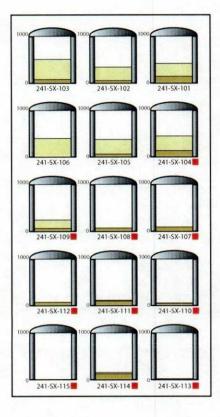


		Kgal	
Tank	Sludge	Saltcake	S
241-TX-101	74	17	
241-TX-102	2	215	
241-TX-103	0	145	
241-TX-104	34	33	
241-TX-105	8	568	
241-TX-106	5	343	
241-TX-107	0	29	
241-TX-108	6	121	
241-TX-109	363	0	
241-TX-110	37	430	
241-TX-111	43	321	
241-TX-112	0	634	
241-TX-113	93	545	
241-TX-114	4	528	
241-TX-115	8	545	
241-TX-116	66	533	
241-TX-117	29	451	
241-TX-118	0	247	



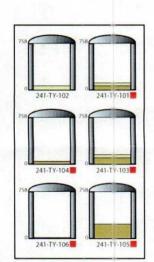
SX-Tank Farm- 1953-54 15 @ 1,000 Kgal Tank Capacity, Single-Shell

		Kgal	
Tank	Sludge	Saltcake	Supernatant
241-SX-101	144	275	0
241-SX-102	55	286	0
241-SX-103	78	431	0
241-SX-104	136	310	0
241-SX-105	63	312	0
241-SX-106	0	396	0
241-SX-107	94	0	0
241-SX-108	74	0	0
241-SX-109	66	175	0
241-SX-110	49	7	0
241-SX-111	98	17	0
241-SX-112	75	0	0
241-SX-113	19	0	0
241-SX-114	126	29	0
241-SX-115	4	0	0



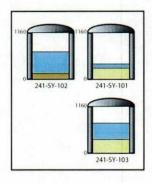
TY-Tank Farm- 1951-52
6 @ 758 Kgal Tank Canacity Single-Shell

	Kgal			
Tank	Sludge	Saltcake	Supernatant	
241-TY-101	72	47	0	
241-TY-102	0	69	0	
241-TY-103	103	51	0	
241-TY-104	43	0	1	
241-TY-105	231	0	0	
241-TY-106	16	0	0	



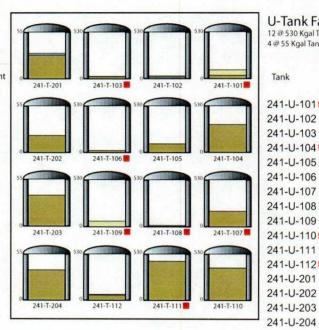
SY-Tank Farm- 1977 3 @ 1,160 Kgal Tank Capacity, Double-Shell

Kgal			
Sludge	Saltcake	Supernata	
0	275	107	
145	0	538	
0	342	399	
	0 145	0 275 145 0	



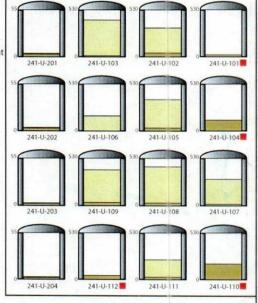
I-lank Farm- 1943-44
12 @ 530 Kgal Tank Capacity, Single-Shell
4 @ 55 Kgal Tank Capacity, Single-Shell
Koa

	4 @ 55 Kgal Tank Capacity, Single-Shell				
	Tank	Sludge	Saltcake	Supernata	
	241-T-101	37	62	0	
	241-T-102	19	0	13	
	241-T-103	23	0	4	
	241-T-104	317	0	0	
	241-T-105	98	0	0	
	241-T-106	22	0	0	
	241-T-107	173	0	0	
	241-T-108	5	11	0	
	241-T-109	0	62	0	
	241-T-110	369	0	1	
	241-T-111	447	0	0	
	241-T-112	60	0	7	
	241-T-201	28	0	2	
	241-T-202	20	0	0	
	241-T-203	36	0	0	
	241-T-204	36	0	0	

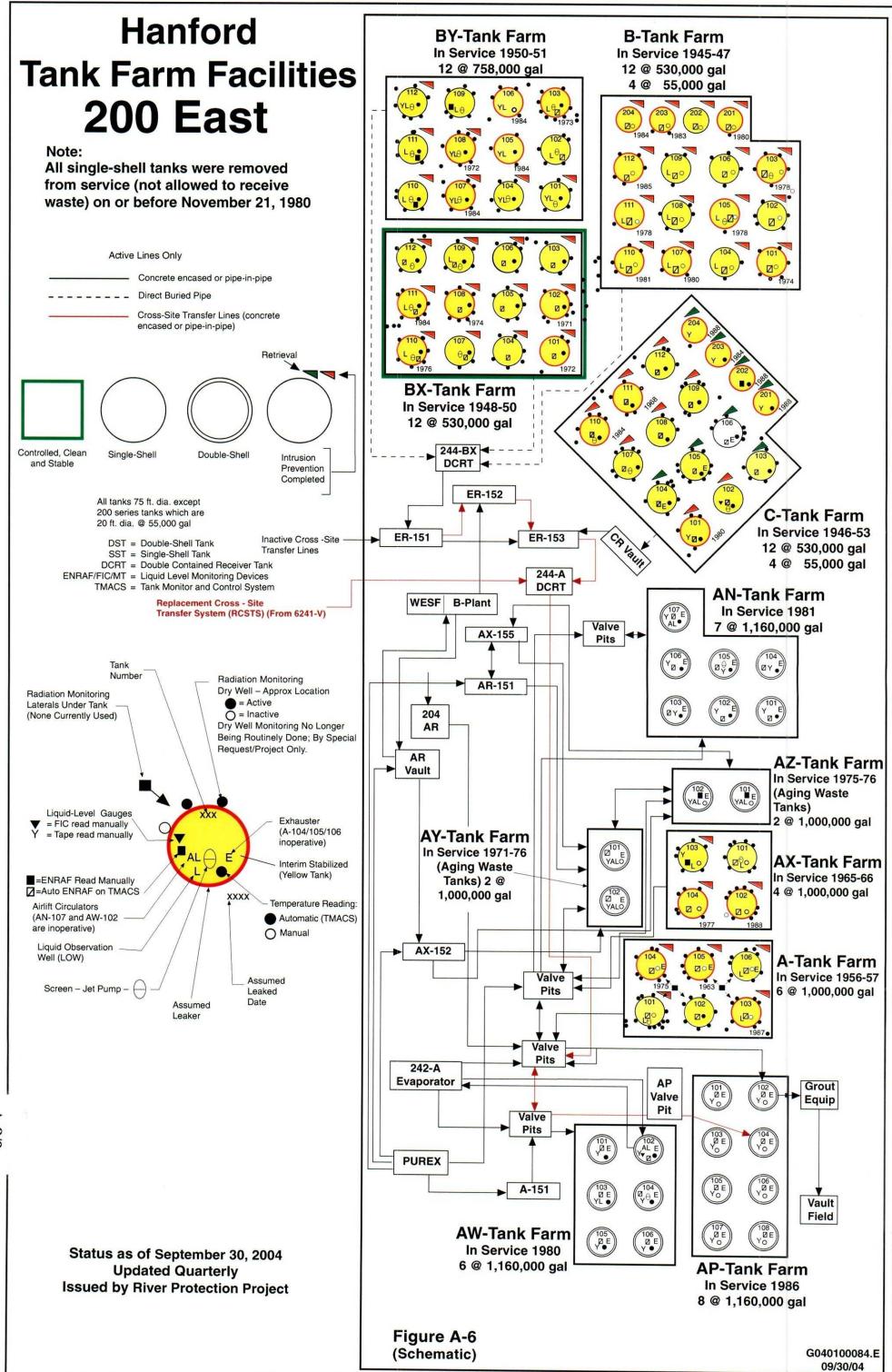


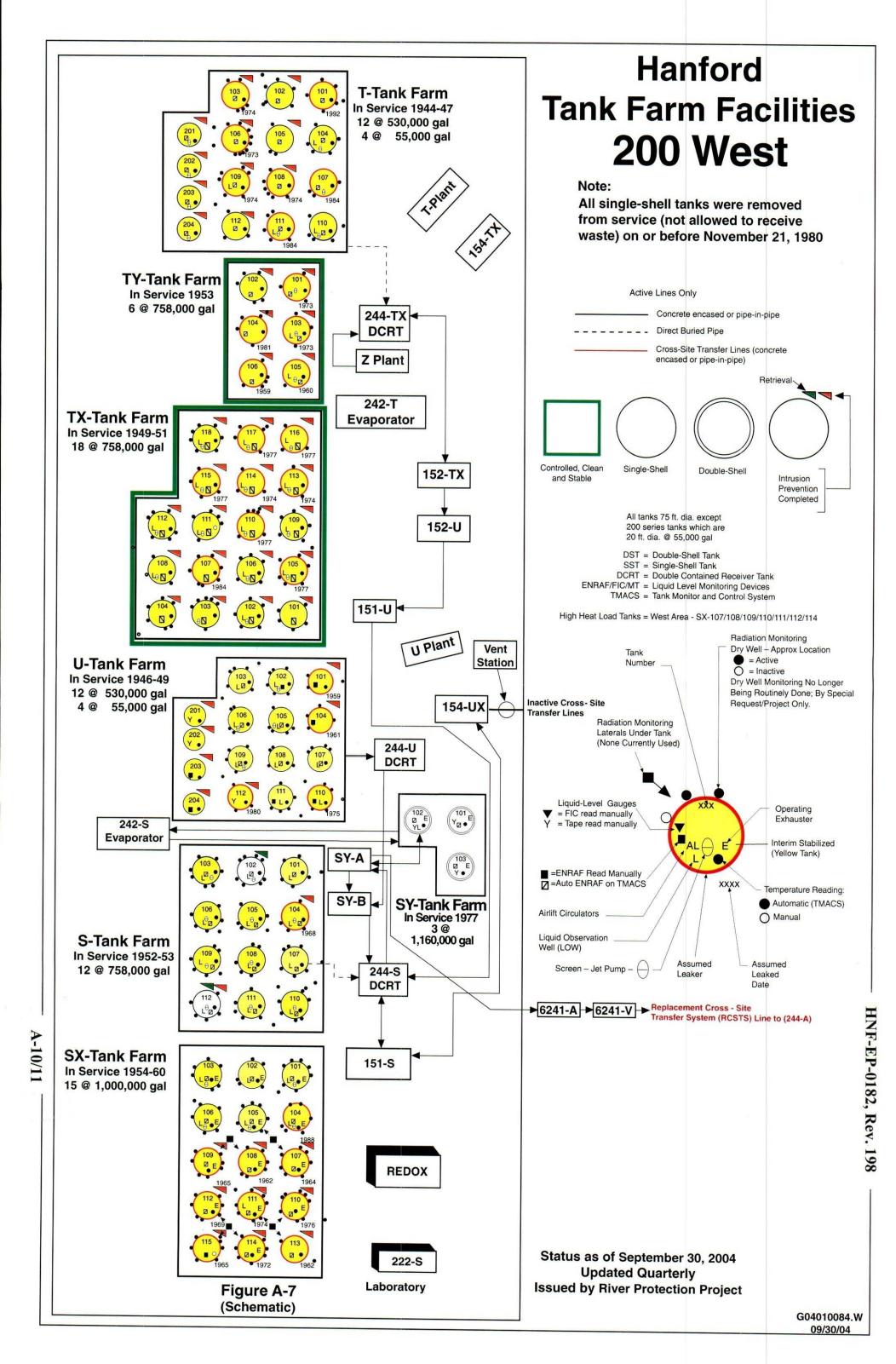
U-Tank Farr 12 @ 530 Kgal Tank 4 @ 55 Kgal Tank Ca	Capacity, Sin	gle-Shell	
		Kgal	
Tank	Sludge	Saltcake	Supernatant
241-U-101	23	0	0
241-U-102	43	283	1
241-U-103	12	404	1
241-U-104	122	0	0
241-U-105	32	321	0
241-U-106	0	168	2
241-U-107	15	279	0
241-U-108	29	405	0
241-U-109	35	366	0
241-U-110	176	0	0
241-U-111	26	196	0
241-U-112	45	0	0
241-U-201	3	0	1
241-U-202	3	0	1

0



LEGEND	Sludge	Saltcake	Supernatant	Available :
				-





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